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August 18, 2003

Marlene H. Dortch, Esq.
Office of the Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

ELECTRONIC FILING

RE: Petition for Reconsideration, WT 99-87

Dear Ms. Dortch:

Attached is a Petition for Reconsideration of some aspects of the *Second Report and Order* in the above referenced proceeding.

For your information I am also providing copies of the attached, via USPS, to the relevant Legal Advisor of each Commissioner; to the Chief and Deputy Chief of the Wireless Telecommunications Bureau; and to the Chief, Deputy Chief for Public Safety, and Deputy Chief for Technical of the Public Safety and Private Wireless Division.

If there are any questions, please do not hesitate to contact me.

Sincerely,

Robert J. Speidel, Esq.
Manager, Regulatory Policy

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C.

In the Matter of)	
)	
Implementation of Sections 309(j) and 337)	WT Docket No. 99-87
of the Communications Act of 1934 as)	
Amended)	
)	RM-9332
Promotion of Spectrum Efficient)	
Technologies on Certain Part 90)	
Frequencies)	

Petition for Reconsideration of the Second Report and Order filed by M/A-COM, Inc.

August 18, 2003

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SUMMARY

In the *Second Report and Order* the Commission has addressed the need to mandate utilization of spectrally efficient equipment in the Commission's 150-174 MHz and 450 – 512 MHz spectrum bands. Previously, as a result of the *Reforming* proceeding, the Commission mandated manufacturers to produce increasingly efficient equipment. The Commission now realizes mandating efficiency requirements on equipment manufacturers alone has not resulted in more efficient utilization of the spectrum.

The Commission is to be applauded for this attempt to improve the efficient use of this 150-174 MHz and 450 – 512Mhz frequency bands. However, the rules adopted by the Commission in the *Second Report and Order* unnecessarily restrict realization of efficient spectrum utilization. The Commission erred by adopting rules that:

- Are inconsistent with the request made by AMTA in its Petition for Rulemaking;
- Are contrary to the Commission's policy of adopting rules that are technologically neutral, and;
- Are apparently based on a misinterpretation of the Commission's *Reforming* spectrum efficiency requirements placed on manufacturers.

The actions taken by the Commission in the *Second Report and Order* do not appear to serve the *public interest*.

If the Commission does not amend the rules adopted in the *Second Report and Order* to allow the use of all spectrally efficient technologies by allowing channel bandwidths up to 25 kHz provided certain spectral efficiency requirements are met, the Commission will seriously compromise future realization of efficient spectrum use.

Furthermore, focusing solely on channel bandwidths as the only means for efficient spectrum use may unnecessarily complicate the realization of more efficient technologies as proposed in the *Further Notice of Proposed Rulemaking*.

M/A-COM, therefore, respectfully suggests the Commission reconsider the decisions in the *Second Report and Order* as particularly described hereinafter and allow channel bandwidths greater than 12.5 kHz, provided such use satisfies appropriate voice and data spectrum efficiency standards. M/A-COM recommends the Commission adopt specific language for relevant sections of §90.20, §90.35, §90.203, and §90.209 of the Commission's rules in order to facilitate the retention of 25 kHz channel bandwidths while at the same time requiring increased spectrum efficiency.

This petition, however, does not suggest the elimination of mandated dates when users must employ spectrally efficient technologies. M/A-COM believes the user communities are better qualified to address the appropriateness of the dates selected for mandated transition. In any case, M/A-COM will take the necessary steps to provide compliant equipment by whatever dates are ultimately selected by the Commission based on appropriate user input.

Before the
FEDERAL COMMUNICATIONS COMMISSION
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) RM-9332
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Frequencies)

Petition for Reconsideration of the Second Report and Order filed by M/A-COM, Inc.

To the Commission:

INTRODUCTION

M/A-COM, Inc. (“M/A-COM”), pursuant to Section 1.429 of the Commission’s rules¹ respectfully submits this Petition for Reconsideration of the Commission’s *Second Report and Order*² in the above-captioned proceeding.

In this *Petition*, M/A-COM seeks reconsideration of maximum 12.5 kHz channel bandwidth limitations adopted in the *Second Report and Order*. First, M/A-COM applauds the

¹ 47 C.F.R. §1.429.

Commission for attempting to improve the spectrally efficient use of the relevant spectrum. However, M/A-COM believes the Commission's attempt to implement more spectrally efficient use of the relevant spectrum by focusing solely on bandwidth limitations is misguided. As a result, this petition includes a request for the Commission to reconsider its decision to limit channel bandwidths to 12.5 kHz. There are good and legally sufficient reasons why the Commission can and should reconsider its decision to limit channel bandwidths to 12.5 kHz in the 150-174 MHz and 450-512 MHz frequency bands. This petition includes revised language for the important rules sections that should be modified. The requested modifications are intended to enhance rather than hinder the Commission's courageous attempt to improve spectrally efficient utilization of the relevant spectrum.

BACKGROUND

M/A-COM is a longstanding provider of electronic equipment to the Land Mobile Radio market. M/A-COM is also the successor in interest to Ericsson GE Mobile Communications, Ericsson Private Radio Systems (“Ericsson”) and Com-Net Ericsson Critical Communications, Inc. (“Com-Net”). Tyco Electronics, acquired Com-Net in May of 2001, and established M/A-COM Private Radio Systems, Inc. as an operating component of its M/A-COM Wireless Systems Business unit. In December of 2002, M/A-COM Private Radio Systems, Inc. officially changed its name to M/A-COM, Inc. to better reflect the continuing integration of the former Com-Net entity into the M/A-COM family of companies.

M/A-COM and its predecessors have long been actively involved in the private radio business. The Tyco Electronics acquisition merged the expertise developed by Com-Net and its predecessors through its Enhanced Digital Access Communications Systems (EDACS[®]) with the expertise developed within M/A-COM through its advanced digital OpenSky[®] communications system.

² Implementation of Sections 309(j) and 337 of the Communications Act of 1934 as Amended, WT Docket No. 99-87, and Promotion of Spectrum Efficient Technologies on Certain Part 90 Frequencies, RM-9332; Second Report and Order, (2003), adopted February 14, 2003; released February 25, 2003 (“Second Report and Order”).

M/A-COM and its predecessors have long been active participants in a number of Commission proceedings, including *Refarm*³. The *Refarm* proceeding is particularly relevant to the issues in the instant proceeding. *Refarm* is the proceeding wherein the Commission imposed efficiency mandates on the manufacturing community for equipment that is used in the same 150-174 MHz and 450-512 MHz frequency bands. It is also the *Refarm* proceeding wherein the Commission explicitly recognized the concept of “equivalent spectrum efficiency” and the key role this concept plays. The efficiency requirements placed upon the manufacturing community as part of the *Refarm* proceeding specifically allowed manufacturers to choose between channel bandwidth limitations and other efficiency techniques employing wider channel bandwidths as the means for satisfying the Commission’s efficiency requirements.⁴ Many manufacturers have now developed or begun to develop products to satisfy the Commission’s 2005 *Refarm* efficiency mandates. It must be noted that in many cases such equipment employs efficiency techniques other than actual channel bandwidth limitations. If the rules as established in the *Second Report and Order* remain as adopted much of this new equipment will be precluded and any investments already made will be lost.

Additionally, M/A-COM and its predecessors have been active participants in a number of advisory committees dealing with the structure of the land mobile radio spectrum, particularly as such spectrum relates to public safety needs. Some of the output from these committees has formed the genesis of the *Public Safety Proceeding*⁵, and have assisted in developing technical rules for the new 700 MHz public safety spectrum. In 1995 and 1996, Ericsson personnel were very active members of the Public Safety Wireless Advisory Committee (“PSWAC”) with one Ericsson employee serving as a member of the PSWAC Steering Committee. More recently, M/A-COM and its predecessors have been and continue to be very active members of the Public Safety National Coordination Committee (“NCC”).

³ Replacement of Part 90 by Part 88 to Revise the Private Land Mobile Radio Services and Modify the Policies Governing Them and Examination of Exclusivity and Frequency Assignments Policies of the Private Land Mobile Services, PR Docket No. 92-235 (“*Refarm*”)

⁴ See Memorandum Opinion and Order, PR Docket No. 92-235, FCC 96-492, 11 FCC Rcd 17696 (1996), adopted December 23, 1996 and released December 30, 1996

⁵ The Development of Operational, Technical and Spectrum Requirements for Meeting Federal, State and Local Public Safety Agency Communication Requirements Through the Year Through the Year 2010, WT Docket No. 96-86 (“*Public Safety Proceeding*”)

Again a current M/A-COM employee has served on the NCC Steering Committee from the very beginning of the NCC in 1999.

As a result of its involvement, and the involvement of its predecessors, in the rulemaking proceedings and advisory committees M/A-COM has a particular appreciation for the Commission's efforts to improve the efficient utilization of the 150-174 MHz and 450-512 MHz land mobile frequency bands. M/A-COM is fully aware of the many challenges faced by the Commission. However, M/A-COM knows the rules adopted in the *Second Report and Order* likely will not best satisfy the public interest of improved efficiency in the 150-174 MHz and 450-512 MHz land mobile frequency bands. Furthermore, M/A-COM is concerned the rules adopted in the *Second Report and Order* will have a seriously negative effect on the Commission's attempt to improve interoperability in all public safety frequency bands.

M/A-COM and its predecessors have long been strong advocates of the need to achieve maximum voice spectrum efficiency, consistent with available technology, as soon as possible. Therefore, M/A-COM feels compelled to offer its suggestions for improving the rules through this Petition for Reconsideration.

DISCUSSION

A. General

In the *Second Report and Order* the Commission has implemented a number of rules changes intended to improve the spectrally efficient use of the 150-174 MHz and 450-512 MHz land mobile radio bands. While the instant proceeding is independent of the *Refarming*⁶ proceeding M/A-COM believes the rules adopted in the instant proceeding are intended to supplement the rules adopted in the *Refarming* proceeding. Unfortunately much of the discussion in the *Second Report and Order* as well as the rules adopted in the *Second Report and Order* are inconsistent with policies expressed in the *Refarming* proceeding. As a result

⁶ See footnote 3, supra.

these new rules may frustrate realization of spectrally efficient use of the 150-174 MHz and 450-512 MHz land mobile radio bands.

Specifically, in the *Second Report and Order* the Commission has taken the following actions:

- Prohibition of any license applications for new operations **using 25 kHz** (emphasis added) channels, beginning six months after publication of the *Second Report and Order* in the Federal Register. (NB: According to the date of Federal Register publication, July 17, 2003, this date would be January 17, 2004, or January 19, 2004 if the intention is to reflect the fact January 17, 2004 is a Saturday. However, the actual notice included in the Federal Register publication shows this date as January 13, 2004.)
- Prohibition of any license modification applications that expand the authorized contour of an existing station if the **bandwidth** for transmissions specified in the modification application **is greater than 12.5 kHz** (emphasis added), beginning six months after publication of the *Second Report and Order* in the Federal Register. (NB: The actual date is as noted above.)
- Prohibition on the certification of any equipment **capable** of operating at one voice path per 25 kHz of spectrum, *i.e. equipment that includes a 25 kHz mode*, (emphasis added) beginning January 1, 2005.
- Prohibition on the manufacture and importation of any 150-174 MHz and 421-512 MHz band equipment **that can operate on a 25 kHz bandwidth** (emphasis added) beginning January 1, 2008.
- Imposition of deadlines for **migration to 12.5 kHz technology** (emphasis added) for private land mobile radio services (PLMRS) systems operating in the 150-174 MHz and 421-512 MHz bands. The deadlines are January 1, 2013 for non-public safety systems and January 1, 2018 for public safety systems.

The language used above is indicative of the imprecise language used throughout the *Second Report and Order*. In some aspects the language refers to “bandwidth” and in other places it refers to “technology.” As demonstrated in the *Reforming* proceeding and as expressed in numerous Commission statements of policy, the two terms “bandwidth” and “technology” are not necessarily interchangeable. When the terms are used, albeit incorrectly, interchangeably, the results and interpretations are often anomalous. In fact, improper uses of the terms will likely precipitate results contrary to Commission intentions.

The rules adopted in the *Second Report and Order* are examples of the deleterious effect caused by imprecise use of the terms “bandwidth” and “technology.” The anomalous results cause by the *Second Report and Order* warrants the Commission’s attention to react positively to this Petition for Reconsideration.

B. Petition Rationale

There must be a legal basis supporting a Petition for Reconsideration. The Petitioner must be able to show the Commission made an error in application of the information used to support the decision or the Petitioner must proffer new evidence showing the decision is inappropriate, which such new evidence was unavailable to provide to the Commission in a timely manner.⁷ Merely disagreeing with decisions made by the Commission in a Report and Order is not a sufficient legal basis.

There are a number of grounds making this Petition legally sufficient for the Commission to act.

First, the Commission has adopted rules that are inconsistent with the original request made by the American Mobile Telecommunications Association (AMTA) in its Petition for Rulemaking⁸. As stated in the Further Notice of Proposed Rulemaking⁹ addressing the AMTA request, the Commission noted AMTA requested utilization of spectrum efficient technologies, not necessarily technologies that utilize a maximum 12.5 kHz channel bandwidth.

“On June 19, 1998, AMTA filed a petition for rule making proposing that certain Part 90 licensees be required to employ new spectrum-efficient **technologies** (emphasis added).

⁷ See, e.g., 800 Data Base Access Tariffs and the 800 Service Management System Tariff and Provision of 800 Services, 7 FCC Rcd 1753 (1992) and See also, Satellite Delivery of Network Signals to Unserved Households for Purposes of the Satellite Home Viewer Act: Part 73 Definition and Measurement of Signals of Grade B Intensity, Order on Reconsideration, 14 FCC Rcd 17373 (1999); Elimination of Telephone Company-Cable Cross Ownership Rules, Sections 63.54-63.56, for Rural Areas, 91 FCC 2d 622 (1982); Amendment of Section 73.636(a) of the Commission’s Rules (Multiple Ownership of Television Stations), 82 FCC 2d 329 (1980).

⁸ AMTA Petition for Rulemaking (RM-9332) (filed June 19, 1998) (AMTA Petition I)

⁹ Further Notice of Proposed Rulemaking In the Matter of Implementation of Sections 309(j) and 337 of the Communications Act of 1934 as Amended (WT Docket No. 99-87), Promotion of Spectrum Efficient Technologies on Certain Part 90 Frequencies (RM-9332), Establishment of Public Service Radio Pool in the Private Mobile Frequencies Below 800 MHz (RM-9405), and Petition for Rule Making of The American Mobile Telecommunications Association (RM-9705); FCC 00-403, dated November 9, 2000 and released November 20, 2000 (hereinafter *Further Notice of Proposed Rulemaking*)

Specifically, AMTA urges that non-Public Safety licensees in the bands between 222 MHz and 896 MHz be required to deploy technology that achieves the equivalent of two times the capacity of most current operations. **The gain in efficiency would result in one voice path per 12.5 kilohertz of spectrum, using a 25 kilohertz frequency** (emphasis added).¹⁰

Furthermore, in the *FNPRM* the Commission also misstates its own rules regarding the efficiency requirements imposed on manufacturing companies as a result of the *Reforming* proceeding.

“Specifically, since February 14, 1997, we have certified equipment for 25 kilohertz channels only if it is also capable of operating on 12.5 kilohertz and/or narrower channels. After January 1, 2005, only new equipment that operates on 6.25 kilohertz channel bandwidths will be certified. New equipment that operates on 25 and/or 12.5 kilohertz channels will be certified only if it is also capable of operating on 6.25 kilohertz or narrower channels.”¹¹

The above statement of the rules specifically ignores the provisions of §§90.203(j)(2)(iii), 90.203(j)(3), 90.203(j)(4)(iv) and 90.203(j)(5)¹² as such have existed since the late 1990’s. §§ 90.203(j)(2)(iii) and 90.203(j)(3) specifically allow certification of equipment with bandwidths up to 25 kHz provided they have an efficiency of one voice path per 12.5 kHz of bandwidth as of February 14, 1997. §§ 90.203(j)(4)(iv) and 90.203(j)(5) specifically allow certification of equipment with bandwidths up to 25 kHz provided they have an efficiency of one voice path per 6.25 kHz of bandwidth as of January 1, 2005. While the rules adopted in the *Second Report and Order* have inappropriately deleted the provisions of §§90.203(j)(2)(iii) and 90.203(j)(4)(iv) it should be noted, at this point, neither § 90.203(j)(3) nor § 90.203(j)(5) was modified or deleted by the *Second Report and Order*.

Essentially, the rules adopted in the *Second Report and Order* are inconsistent with both the AMTA request and any rule changes contemplated by the AMTA request.

¹⁰ *FNPRM* at paragraph 137

¹¹ *Id.* at paragraph 138

¹² 47 C.F.R. 90.203(j)(3) and 47 C.F.R. 90.203(j)(5)

Second, Commission errors in adopting the rules in the *Second Report and Order* are further evidenced by reference to the actual language of the *Second Report and Order*. Specifically, the *Second Report and Order* states:

“In that connection, the Commission added NB technology or **NB equipment will include** all advanced technologies designed to operate with channel bandwidths of 6.25 kHz or less or **equipment with 6.25 kHz equivalent efficiency such as TDMA (2 channels in 12.5 kHz or 4 channels in 25 kHz)** (emphasis added)”¹³

The Commission also defines narrowband equipment in the *Second Report and Order* as equipment that meets an efficiency standard of 1 voice path per 12.5 kHz of bandwidth.

“For the purposes of this *2nd R&O*..., narrowband technology will refer to utilization of one voice path per 12.5 kHz of spectrum.”¹⁴

In the *Second Report and Order* the Commission also explains it is the Commission’s intention to encourage migration to narrowband technology¹⁵ by adopting rules requiring migration to “narrowband technology” over a ten year period. 4-slot TDMA solutions are included in the definition of “narrowband technology” or “narrowband equipment” as defined above, however, the rules adopted in the *Second Report and Order* exclude equipment channel bandwidths in excess of 12.5 kHz. It is, therefore, clear the language of the Second Report and Order does not support the limitations expressed in the adopted rules.

The Commission’s failure to pay heed to its own definitions in the *Second Report and Order* and assure that the rules adopted were consistent with such definitions is further evidence of the sufficiency of the basis for this petition.

Third, the Commission has long espoused a policy that the rules it adopts should not favor one technical solution over another. In other words the Commission intends its’ rules to be technically neutral to the maximum extent reasonable.

The rules adopted in the *Second Report and Order* do not meet the Commission policy of technical neutrality. There is no argument the rules adopted preclude utilization of spectrally

¹³ *Second Report and Order*, footnote 6

¹⁴ *Second Report and Order*, footnote 10

efficient technologies that were previously allowed and in fact encouraged. Highly efficient technologies, such as 4-slot Time Division Multiple Access (TDMA) providing 4 voice paths in a 25 kHz channel, the equivalent of 1 voice path per 6.25 kHz of bandwidth are no longer allowed in the 150-174 MHz and 450-512 MHz land mobile radio frequency bands. This is particularly onerous in the 470-512 MHz T-Band where exclusive channel assignments are possible, thereby facilitating the implementation of existing 4-slot solutions. Furthermore, additional complementary developments are underway, which are intended to facilitate the utilization of 4-slot technologies in the 150-174 MHz and 450-470 MHz bands shared land mobile radio spectrum while still complying with the concurrence requirements of § 90.187¹⁶. Elimination of channel bandwidths in excess of 12.5 kHz, even for equipment demonstrating spectrum efficiency in excess of what is required by the *Second Report and Order*, also means the investment in these complementary developments, which has already been made, has been largely wasted.

In addition to the errors and inconsistencies in the *Second Report and Order*, the Commission's inability to describe its' pre-existing rules' requirements correctly; and the failure of the adopted rules to maintain the Commission's policy of technical neutrality; there is another negative effect the Commission may not have adequately considered. This additional negative effect is the inappropriate utilization of additional R&D dollars already expended.

In the *Reforming* proceeding, the Commission imposed efficiency requirements on manufacturers. As of January 1, 2005, the pre-existing Commission rules required equipment submitted for certification must have 6.25 kHz **OR EQUIVALENT** efficiency, if such equipment is for the 150-174 MHz and/or 450-512 MHz land mobile radio frequency bands. Because of this requirement, which has been known by the manufacturers and the Commission since the late 1990's, many manufacturers have already invested significant dollars

¹⁵ *Second Report and Order* paragraph 12.

¹⁶ 47 C.F.R. 90.187

developing the necessary technologies. Many of the technologies being developed by numerous manufacturers utilize channel bandwidths greater than 12.5 kHz while at the same time providing at least 1 voice path per 6.25 kHz of bandwidth. If the rules, as adopted in the *Second Report and Order* are allowed to stand these R&D investments in highly efficient equipment utilizing channel bandwidths greater than 12.5 kHz, which have been incurred pursuant to good faith reliance on the Commission's rules, will have been wasted.

All of the foregoing reasons provide a good and sufficient basis for the Commission to act favorably to the requests made in this petition. Namely the Commission should allow channel bandwidths in excess of 12.5 kHz provided the appropriate voice and/or data efficiency standards are met. The errors expressed herein, the mandated wasting of R&D dollars already expended, and the likelihood the rules currently adopted will minimize the realization of efficient spectrum use, all, individually and collectively, mandate the Commission to act favorably on the requests herein for channel bandwidths in excess of 12.5 kHz.

C. Changes to 47 C.F.R §§90.203 and 90.209

Before discussing the structure of the VHF and UHF bands as such bands exist after the *Second Report and Order* and the exact means the Commission should employ to provide for channel bandwidths greater than 12.5 kHz, M/A-COM believes there are a number of preliminary rules changes to propose. These recommended rules changes are independent of the exact manner in which the Commission decides to allow channel bandwidths up to 25 kHz. The recommended rules changes are also independent of the technologies manufacturers will employ to provide equipment satisfying the efficiency mandates placed on the user communities while at the same time satisfying the efficiency mandates placed on manufacturers as a result of the *Refarming* proceeding.

The first recommendation M/A-COM makes to allow for channel bandwidths greater than 12.5 kHz is to change the language of §90.203(j)(4) to read as follows:

(4) Applications for certification received on or after January 1, 2005, except for hand-held transmitters with an output power of two watts or less, will only be granted for equipment with the following channel bandwidths:

- (i) 6.25 kHz or less for single bandwidth mode equipment;
- (ii) 12.5 kHz for multi-bandwidth mode equipment with a maximum channel bandwidth of 12.5 kHz if it is capable of operating on channels of 6.25 kHz or less;
- (iii) Up to 25 kHz in single bandwidth mode equipment or multi-bandwidth mode equipment, if the single bandwidth mode equipment, or at least one channel bandwidth mode in multi-bandwidth mode equipment, meets the efficiency standard of paragraph (j)(5) of this section.

The above recommended change is necessary to indicate channel bandwidths greater than 12.5 kHz are clearly allowed, but at the same time the language also indicates such wider channel bandwidths are clearly contingent on the provision of spectrally efficient technologies.

The second rules change M/A-COM believes is necessary is modification of the language in §90.203(j)(10), which was added by the *Second Report and Order*, to read as follows:

- (10) Single bandwidth mode transmitters designed to operate in the 150-174 MHz and 421-512 MHz bands that only provide one voice path in 25 kHz capability shall not be manufactured in, or imported into, the United States after January 1, 2008.

M/A-COM realizes the Commission has a justifiable interest to ease the user transition to spectrally efficient operations by the relevant transition dates. Elimination of equipment that does not possess the required spectrum efficiency in any mode is a way to ease the user transition. However, for reasons of backward compatibility and interoperability up to the time that user transition is mandated, M/A-COM believes it is unwise for the Commission to mandate elimination of a less efficient mode from otherwise efficient multi-bandwidth mode equipment. The above recommended language allows retention of the less efficient mode in multi-bandwidth mode equipment thereby fostering backward compatibility and interoperability

until the time of mandated user transition, while not compromising the Commission's intent to improve the overall efficiency of operations in the VHF and UHF bands.

The third general rule change M/A-COM recommends concerns the language of footnote 3 under the Table in §90.209(b)(5). The footnote language should be changed to read:

3. Operations using equipment designed to operate with a 25 kHz channel bandwidth will be authorized a 20 kHz bandwidth. Operations using equipment designed to operate with a 12.5 kHz channel bandwidth will be authorized an 11.25 kHz bandwidth. Operations using equipment designed to operate with a 6.25 kHz channel bandwidth will be authorized a 6 kHz bandwidth. All non-public safety stations must operate with equipment that provides at least one voice path per 12.5 kHz beginning January 1, 2013. All public safety stations must operate with equipment that provides at least one voice path per 12.5 kHz beginning January 1, 2018.

At this point, M/A-COM notes it believes the mandated transition dates for the user communities included in the revised footnote 3 language above, may change. M/A-COM recommends these dates be changed based on input from the various user Petitions for Reconsideration.

As a last general recommendation M/A-COM believes the language in §90.209(b)(6) should be changed. The purpose of this recommended change is to provide the user communities with full operational flexibility up to the time of the relevant transition date without compromising the Commission's intent to achieve spectrally efficient operations. M/A-COM recommends §90.209(b)(6) be modified to read as follows.

(6) No new applications for the 150-174 MHz and/or 421-512 MHz bands will be acceptable for filing if the applicant utilizes channels with a bandwidth exceeding 11.25 kHz after the relevant transition date outlined in footnote 3 to the Table in 90.209(b)(5), unless such use will provide at least 1 voice path per 12.5 kHz of channel bandwidth. If such new use will provide at least 1 voice path per 12.5 kHz of channel bandwidth the applicant may propose to use channel bandwidths up to 25 kHz. No modification applications for stations in the 150-174 MHz and/or 421-512 MHz bands that increase the station's authorized interference contour will be acceptable for filing if the applicant utilizes channels with a bandwidth exceeding 11.25 kHz, after the relevant transition date outlined in footnote 3 to the Table in 90.209(b)(5) unless such use will provide at least 1 voice path per 12.5 kHz of channel bandwidth. If such modified use will provide at least 1 voice path per 12.5 kHz of channel bandwidth the applicant may propose to use channel bandwidths up to 25 kHz.

D. Changes to structure of 150-174 MHz & 450-512 MHz bands

After the adoption of the *Second Report and Order* the structure of the VHF and UHF bands can be depicted as shown in Figures 1 and 2 below.

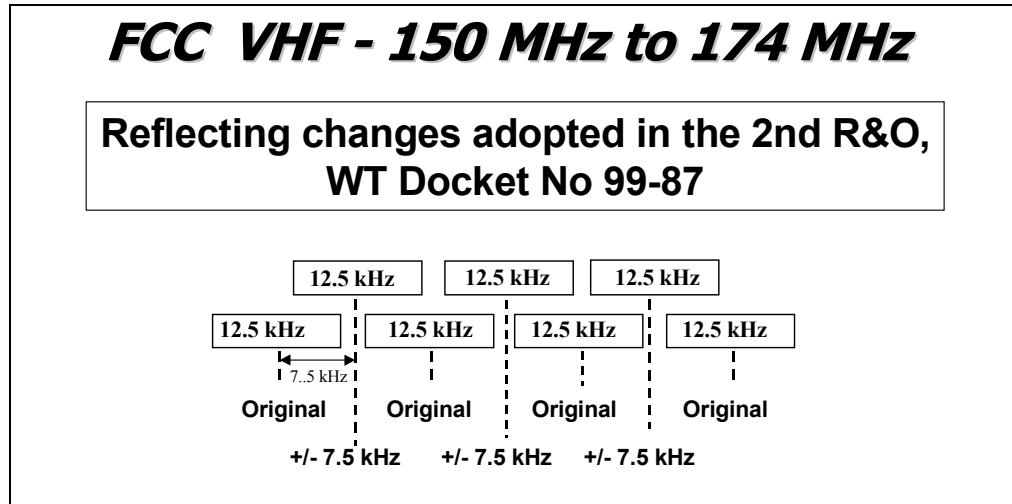


Figure 1.

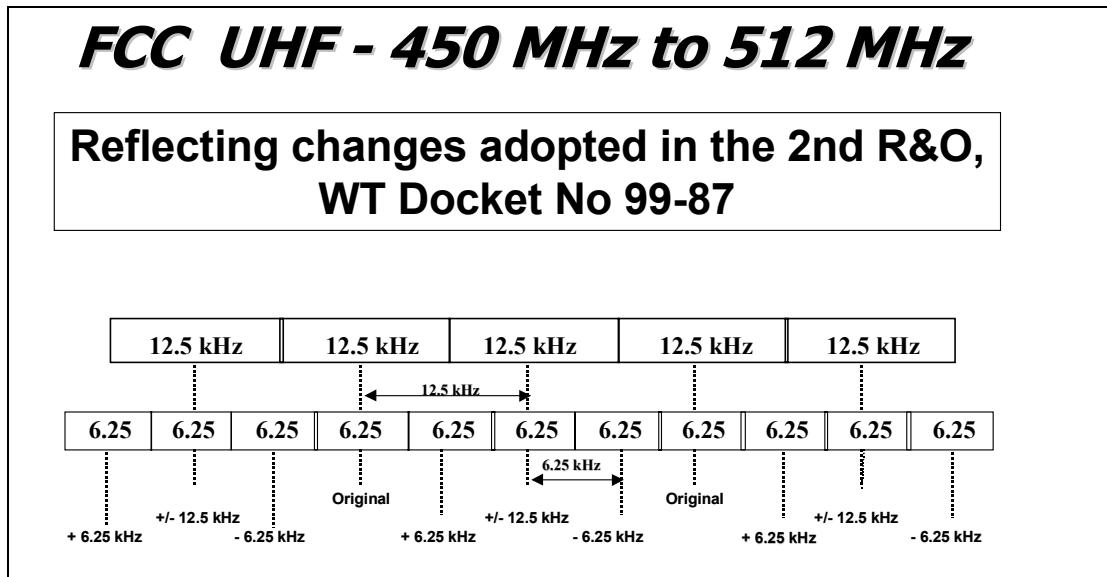


Figure 2.

The above figures reflect the fact the Commission, by the rules adopted in the *Second Report and Order*, simply has reduced the maximum authorized channel bandwidth to 12.5 kHz (11.25 kHz) on the channels identified as “original” channels in either band. The term “original” is intended to define those channels authorized or existing, prior to the VHF and UHF band restructuring and channel additions resulting from the *Reforming* proceeding.

Since the Commission has seemingly eliminated all VHF and UHF channels with an authorized bandwidth of 25 kHz, in order to resolve the errors and misinterpretations of the Commission in the *Second Report and Order* as noted previously, M/A-COM recommends the Commission implement an appropriate means of providing 25 kHz channels. Furthermore, providing a means to allow 25 kHz channels will also allow the Commission to foster its policy of technical neutrality, and will allow manufacturers to realize a return on R&D investment already incurred.

The method to provide 25 kHz channels, while at the same time minimizing the overlap problems between 25 kHz and 12.5 kHz (and subsequently 6.25 kHz) channel bandwidth operations, would best be attained by allowing the combination of two adjacent 12.5 kHz channels, as such exist after the *Second Report and Order*, to form a 25 kHz channel. This works well for the UHF structure existing after the *Second Report and Order*, but does not work as well for modifying the VHF structure because of the overlap resulting from 12.5 kHz channels being spaced on 7.5 kHz centers in the VHF spectrum. However, combining two adjacent VHF channels in the post-*Second Report and Order* structure will result in a 20 kHz channel, which is the authorized bandwidth for a 25 kHz channel as described in §90.209(b)(2). Thus the Commission could provide 25 kHz channels in the VHF portion of the spectrum by allowing combination of two adjacent 12.5 kHz channels, as such exist after the *Second Report and Order*, to form a 25(20) kHz channel in the VHF spectrum.

However, M/A-COM strongly believes the overall structure of the VHF spectrum should be changed to a structure similar to the proposed UHF structure, at the appropriate time. To minimize impact, this seemingly radical restructuring of the VHF spectrum should take place at the same time the efficiency mandates become effective on the respective user communities¹⁷.

¹⁷ Again, M/A-COM notes it believes these mandated transition dates for the user communities should be finally determined by the Commission based on input from the various user communities Petitions for Reconsideration.

In any case, M/A-COM is prepared to take whatever steps are necessary to provide compliant equipment consistent with the dates finally determined.

It also should be noted the recommended restructuring charts below, shift the channel centers for 6.25 kHz bandwidth channels 3.125 kHz from the 6.25 kHz channel centers presently stated in the assumed post- *Second Report and Order* UHF structure. The purpose of the 3.125 kHz shifts is to make two 6.25 kHz channels the naturally resultant product of splitting a given 12.5 kHz channel. This change will also minimize the overlap problems between 12.5 kHz channels and 6.25 kHz channels in the post- *Second Report and Order* structure, particularly in the existing post- *Second Report and Order* UHF spectrum.

This channel center shift will have little or no effect on existing 6.25 kHz channel licensees. In fact, most if not all currently existing 6.25 kHz channel licensees have probably been cancelled due to failure to satisfy build-out requirements.¹⁸ At this time, most of the 6.25 kHz channel licenses were issued more than one year ago, however, they have likely not been placed into operation due to the non-availability of actual 6.25 kHz channel bandwidth equipment.

Furthermore, moving the 6.25 kHz channel centers 3.125 kHz and allowing 25 kHz channels through the combination of two adjacent 12.5 kHz channels, results in a UHF band structure, and a VHF band structure if the Commission adopts the total VHF band restructuring proposal, similar to the band structure established for the new 700 MHz public safety spectrum.

Figure 3 depicts a recommended VHF band structure assuming there is no overall VHF band restructuring. Note the structure shown in Figure 3 does not easily facilitate transition to 6.25 kHz technologies at some point in the future, as contemplated by the Commission in the

¹⁸ 47 C.F.R. §90.155(a) provides “All stations authorized under this part, . . ., must be placed in operation within twelve (12) months from the date of grant or the authorization cancels automatically (emphasis added) and must be returned to the Commission.

companion FNPRM¹⁹. Absent VHF band restructuring, similar to that shown for the UHF band in Figure 4 below, transition to 6.25 kHz technologies in the VHF band will provide significantly less than full benefits. {NB: The information in Appendix A is information that should be included in revisions to the existing §§ 90.20(c)(3) and 90.35(b)(3) VHF listings. Appendix A lists the VHF channel center frequencies and their associated channel numbers, assuming no band restructuring, for the purposes of calculating the combination limitation language discussed hereinafter. This petition does not contain a proposed channel listing and channel numbering schedule for a restructured VHF band. Restructuring the VHF portions of the band is beyond the scope of this petition. However, M/A-COM strongly recommends the Commission consider a full VHF restructuring. M/A-COM will work with the Commission to develop the exact structure in the event the Commission decides restructuring VHF, at an appropriate time is in the public interest.}

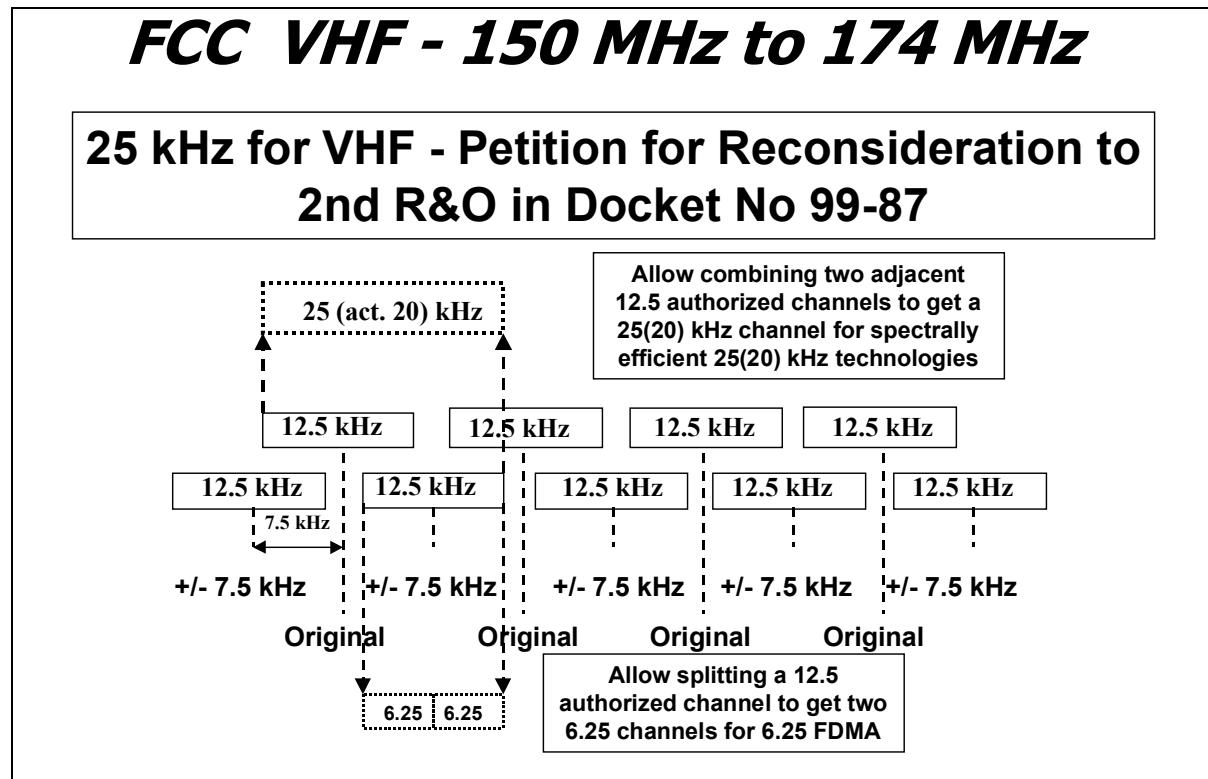


Figure 3.

¹⁹ See Second Report and Order, Section IV, paragraph 27. The Commission has tentatively concluded similar mandates for migration to 6.25 kHz technologies are warranted and has requested comment.

Figure 4 depicts a recommended UHF band structure. In addition to showing a combination of two adjacent 12.5 kHz channels in order to form a 25 kHz channel, Figure 4 also depicts the shift of 3.125 kHz in the 6.25 kHz channel centers. The structure shown in Figure 4 facilitates transition to 6.25 kHz technologies at some point in the future, as contemplated by the Commission in the companion FNPRM²⁰. {NB: The resultant channel centers, for the recommended UHF spectrum, are listed in Appendix B. The information in Appendix B is information that should be included in revised UHF channel listings for §§ 90.20 and 90.35.}

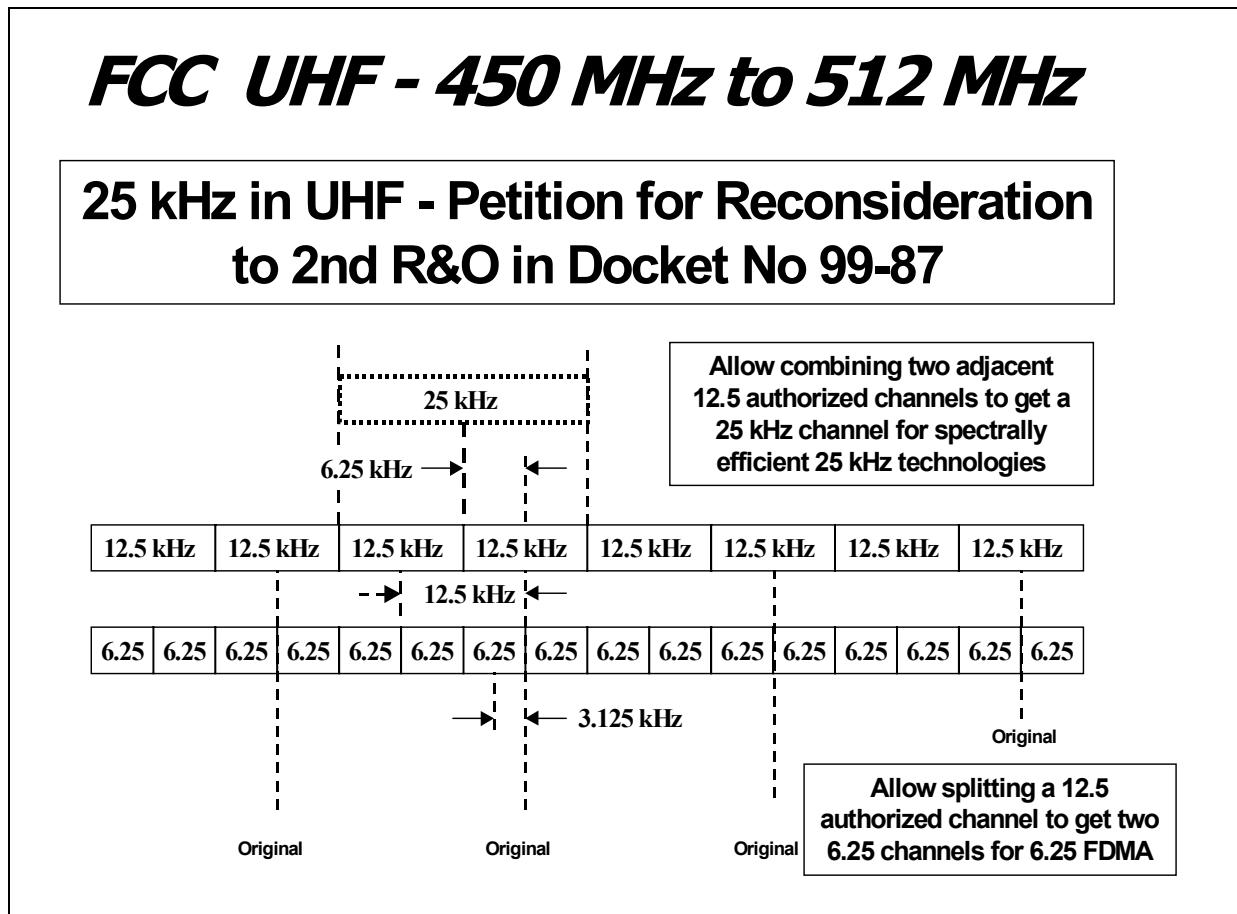


Figure 4.

²⁰ See footnote 19, *supra*.

1. Recommended Changes to §§90.20 & 90.35

In Appendix A the 12.5 kHz channel centers are numbered, similar to the numbering schemes that are employed by the Commission in the 700 MHz public safety and the 800 MHz bands. In Appendix B the 6.25 kHz and 12.5 kHz channel centers are numbered, similar to the numbering schemes employed by the Commission in the 700 MHz public safety and the 800 MHz bands. This has been done to facilitate formulation of the appropriate limitations on the channels that can be used in combination to form 25 kHz channels. M/A-COM believes there should be necessary limitations, similar to the limitations outlined in the §90.531(d) for the 700 MHz public safety spectrum. M/A-COM does not recommend the Commission allow any two 12.5 kHz channels to be combined to form a 25 kHz channel. There must be some order.

M/A-COM recommends §§90.20 and 90.35 be modified to appropriately indicate the allowed combinations for the spectrum to provide 25 kHz channels. For the Public Safety pool VHF (150-174 MHz frequencies) assuming there is no major VHF band restructuring as recommended earlier, M/A-COM recommends §90.20 be changed as follows:

- Existing §90.20(c)(3) be renumbered to §90.20 (c)(5).
- A new §90.20 (c)(3) be added to read:

“(c)(3) Combining VHF (150-174 MHz) channels. Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Designated interoperability channels may not be combined with non-designated interoperability channels. Any 25 kHz channel must comply with all limitations listed in §90.20(c)(5) as applicable to either component 12.5 kHz channel.

(i) Beginning January 1, 2018 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an odd (i.e., 1, 3, 5 * *) numbered channel. Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “1-2, 3-4, ***” for a two channel combination.”

- A new §90.20 (c)(4) be added as discussed hereinafter.

For the Industrial/Business Radio pool VHF (150-174 MHz) frequencies, assuming there is no major VHF band restructuring as discussed earlier, M/A-COM recommends §90.35 be changed as follows:

- Existing §90.35(b)(3) be renumbered to §90.35 (b)(5).
- A new §90.35 (b)(3) be added to read:

“(b)(3) Combining VHF (150-174 MHz) channels. Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Any 25 kHz channel must comply with all limitations listed in §90.35(b)(5) as applicable to either component 12.5 kHz channel.

(i) Beginning January 1, 2013 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an odd (i.e., 1, 3, 5 * *) numbered channel. Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “1-2, 3-4, ***” for a two channel combination.”
- A new §90.35 (b)(4) be added as discussed hereinafter.

The dates specified in both the proposed §90.20 (c)(3) and the proposed §90.35 (b)(3) noted above are subject to change. Again, M/A-COM believes the dates in both the proposed §90.20 (c)(3) and the proposed §90.35 (b)(3) should agree with whatever dates the Commission finally selects for mandated user transition pursuant to the recommendations received from the user communities.

For the Public Safety pool UHF, 450-512 MHz, frequencies, assuming the channels are numbered as shown in Appendix B, M/A-COM recommends §90.20 be further changed as follows:

- A new §90.20 (c)(4) be added to read:

“(c)(3) Combining UHF (450-512 MHz) channels. Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Designated interoperability channels may not be combined with non-designated interoperability channels. Any 25 kHz channel must comply with all limitations listed in §90.20(c)(5) as applicable to either component 12.5 kHz channel.

(i) Beginning January 1, 2018 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an even numbered channel which number is equal to $2+(6xn)$, where n = any integer between 0 and 153, inclusive (e.g., channel number 2, 8, 14 * * *) Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “2-5, 8-11, ***” for the two 12.5 kHz channel combination.”

For the Industrial/Business Radio pool UHF, 450-512 MHz, frequencies, assuming the channels are numbered as shown in Appendix B, M/A-COM recommends §90.35 be further changed as follows:

- A new §90.35 (b)(4) be added to read:

“(c)(3) Combining UHF (450-512 MHz) channels. Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Any 25 kHz channel must comply with all limitations listed in §90.35(b)(5) as applicable to either component 12.5 kHz channel.
(i) Beginning January 1, 2013 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an even numbered channel which number is equal to $2+(6xn)$, where n = any integer between 0 and 524, inclusive (e.g., channel number 2, 8, 14 * * *) Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “2-5, 8-11, ***” for the two 12.5 kHz channel combination.”

Once again, the dates specified in both the proposed §90.20 (c)(4) and the proposed §90.35 (b)(4) noted immediately above must be changed to agree with whatever dates the Commission finally selects for mandated transition pursuant to the recommendations received from the user community petitions for reconsideration.

If the Commission decides to restructure the VHF band such that 12.5 kHz channels are spaced 12.5 kHz apart, as M/A-COM strongly recommends, the necessary modifications to §90.20 and §90.35 are substantially simpler, than those previously proposed. With the total restructuring of the VHF band a 25 kHz channel is provided through the combination of two adjacent 12.5kHz channels and the 6.25 kHz channels offset by 3.125 kHz, similar to the UHF structure shown in Figure 4. With the VHF restructuring, because both band structures are then similar, there is no need for two distinct sets of limitation language in either §90.20 or §90.35, to reflect combination limitations for VHF and a different set of combination limitations for UHF.

In the case of VHF band restructuring with such restructure being similar to the UHF structure and channel numbering schedule depicted in Appendix B for the UHF spectrum, M/A-COM recommends §90.20 be changed for the Public Safety pool as follows:

- Existing §90.20(c)(3) be renumbered to §90.20 (c)(4) and reflect the revised VHF channel centers and numbers as determined by the Commission during the restructuring.
- A new §90.20 (c)(3) be added to read:

“(c)(3) Combining channels (150-174 MHz and 450-512 MHz). Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Designated interoperability channels may not be combined with non-designated interoperability channels. Any 25 kHz channel must comply with all limitations listed in §90.20(c)(4) as applicable to either component 12.5 kHz channel.

(i) Beginning January 1, 2018 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an even numbered channel which number is equal to $2+(6xn)$, where n = any integer between 0 and _____, inclusive (e.g., channel number 2, 8, 14 * * *) Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “2-5, 8-11, ***” for the two 12.5 kHz channel combination.”

Additionally, in the case where the VHF and UHF structures are the same, i.e. channel centers are spaced 6.25/12.5 kHz apart, M/A-COM recommends §90.35 be changed for the Industrial/Business Radio pool as follows:

- Existing §90.35(b)(3) be renumbered to §90.35(b)(4) and reflect the revised VHF center frequencies and numbers as determined by the Commission during the restructuring.
- A new §90.35(b)(3) be added to read:

“(c)(3) Combining channels (150-174 MHz and 450-512 MHz). Adjacent 12.5 kHz channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Any 25 kHz channel must comply with all limitations listed in §90.35(b)(4) as applicable to either component 12.5 kHz channel.

(i) Beginning January 1, 2013 subject to compliance with the spectrum usage efficiency requirements set forth in §90.203(j)(3), two contiguous 12.5 kHz channels may be used in combination as a 25 kHz channel. The lower (in frequency) channel for two 12.5 kHz channel combinations must be an even numbered channel which number is equal to $2+(6xn)$, where n = any integer between 0 and _____, inclusive (e.g., channel number 2, 8, 14 * * *) Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “2-5, 8-11, ***” for the two 12.5 kHz channel combination.”

Again, the dates specified in both the proposed §90.20 (c)(3) and the proposed §90.35 (b)(3) noted immediately above are subject to change. The dates must agree with whatever dates the Commission finally selects for mandated transition pursuant to the recommendations received from the user community petitions for reconsideration.

The foregoing recommendations allow the Commission to retain 25 kHz channel bandwidths while at the same time facilitating user transition to ALL spectrally efficient technologies. Retention of 25 kHz channels, particularly when combined with an overall restructuring of the VHF portions of the Public Safety and the Industrial/Business Radio pools is in the public interest. However, retention of 25 kHz channels, even if there is no overall restructuring of the VHF portions of the Public Safety and the Industrial/Business Radio pools is still in the public interest. Retention of 25 kHz channel bandwidths, as suggested herein, allows for the realization of increased spectrum efficiency through the deployment of 12.5 kHz technologies, and at the same time facilitating realization of further spectrum efficiency gains through the utilization of 6.25 kHz technologies without requiring any additional frequency band restructuring.

CONCLUSION

M/A-COM applauds the Commission for its actions in the *Second Report and Order* to implement the actual utilization of spectrum efficient technologies in the 150-174 MHz and 450-512 MHz frequency bands. The Commission is correct in its conclusion that the rules adopted in the *Reforming* proceeding have not provided sufficient motivation to the utilization of spectrum efficient technologies. There is little doubt something needed to be done.

While the Commission is to be congratulated for its efforts, as noted herein, M/A-COM believes there are ways to enhance the actions taken by the Commission. These enhancements, which are stated in great particularity in this petition, further facilitate the likelihood of efficient

use of the relevant spectrum. Not only do these improvements facilitate the easy integration of 12.5 kHz technologies into the relevant spectrum, they also easily facilitate the implementation of 6.25 kHz technologies at some future date.

Therefore, M/A-COM respectfully requests the Commission to reconsider the rules adopted pursuant to the *Second Report and Order* as specified herein.

Respectfully submitted,



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APPENDIX A

Proposed §90.20(c)(5) VHF Channel listing	A2 through A12
Proposed §90.35(b)(5) VHF Channel listing	A15 through A27

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
150 to 170		Base or Mobile	26	
150.775	1	Mobile		PM
150.7825	2	do		PM
150.79	3	do		PM
150.7975	4	do		PM
150.805		do		PM
150.995	5	Base or Mobile	28	PH
151.0025	6	do	28	PH
151.01	7	do	28	PH
151.0175	8	do	28	PH
151.025	9	do	28	PH
151.0325	10	do	28	PH
151.04	11	do	28	PH
151.0475	12	do	28	PH
151.055	13	do	28	PH
151.0625	14	do	28	PH
151.07	15	do	28	PH
151.0775	16	do	28	PH
151.085	17	do	28	PH
151.0925	18	do	28	PH
151.1	19	do	28	PH
151.1075	20	do	28	PH
151.115	21	do	28	PH
151.1225	22	do	28	PH
151.13	23	do	28, 81	PH
151.1375	24	do	28, 80	PH
151.145	25	do	28,81	PO
151.1525	26	do	28	PO
151.16	27	do	28	PO
151.1675	28	do	28	PO
151.175	29	do	28	PO
151.1825	30	do	28	PO
151.19	31	do	28	PO
151.1975	32	do	28	PO
151.205	33	do	28	PO
151.2125	34	do	28	PO
151.22	35	do	28	PO
151.2275	36	do	28	PO
151.235	37	do	28	PO
151.2425	38	do	28	PO
151.25	39	do	28	PO
151.2575	40	do	28	PO
151.265	41	do	28	PO
151.2725	42	do	28	PO

Proposed §90.20(c)(5) VHF channel listing {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
151.28	43	do	28	PO
151.2875	44	do	28	PO
151.295	45	do	28	PO
151.3025	46	do	28	PO
151.31	47	do	28	PO
151.3175	48	do	28	PO
151.325	49	do	28	PO
151.3325	50	do	28	PO
151.34	51	do	28	PO
151.3475	52	do	28	PO
151.355	53	do	28	PO
151.3625	54	do	28	PO
151.37	55	do	28	PO
151.3775	56	do	28	PO
151.385	57	do	28	PO
151.3925	58	do	28	PO
151.4	59	do	28	PO
151.4075	60	do	28	PO
151.415	61	do	28	PO
151.4225	62	do	28	PO
151.43	63	do	28	PO
151.4375	64	do	28	PO
151.445	65	do	28	PO
151.4525	66	do	28	PO
151.46	67	do	28	PO
151.4675	68	do	28	PO
151.475	69	do	28	PO
151.4825	70	do	28	PO
151.49	71	do	7, 28	PO
151.4975	72	do	7, 28	PO
152.0075		Base	13,19,30	PS
153.74	73	Mobile		PX
153.7475	74	do		PX
153.755	75	do		PX
153.7625	76	do		PX
153.77	77	do		PF
153.7775	78	do		PF
153.785	79	do		PX
153.7925	80	do		PX
153.8	81	do		PX
153.8075	82	do		PX
153.815	83	do		PX
153.8225	84	do		PX
153.83	85	do	31	PF

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
153.8375	86	do	31	PF
153.845	87	do		PX
153.8525	88	do		PX
153.86	89	do		PX
153.8675	90	do		PX
153.875	91	do		PX
153.8825	92	do		PX
153.89	93	do		PF
153.8975	94	do		PF
153.905	95	do		PX
153.9125	96	do		PX
153.92	97	do		PX
153.9275	98	do		PX
153.935	99	do		PX
153.9425	100	do		PX
153.95	101	do		PF
153.9575	102	do		PF
153.965	103	do		PX
153.9725	104	do		PX
153.98	105	do		PX
153.9875	106	do		PX
153.995	107	do		PX
154.0025	108	do		PX
154.01	109	do		PF
154.0175	110	do		PF
154.025	111	Base or mobile		PX
154.0325	112	do		PX
154.04	113	do	28	PX
154.0475	114	do	28	PX
154.055	115	do	28	PX
154.0625	116	do	28	PX
154.07	117	Mobile	28	PF
154.0775	118	do	28	PF
154.085	119	Base or mobile	28	PX
154.0925	120	do	28	PX
154.1	121	do	28	PX
154.1075	122	do	28	PX
154.115	123	do	28	PX
154.1225	124	do	28	PX
154.13	125	do	28	PF
154.1375	126	do	28	PF
154.145	127	do	28	PF
154.1525	128	do	28	PF
154.16	129	do	28	PF

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
154.1675	130	do	28	PF
154.175	131	do	28	PF
154.1825	132	do	28	PF
154.19	133	do	28	PF
154.1975	134	do	28	PF
154.205	135	do	28	PF
154.2125	136	do	28	PF
154.22	137	do	28	PF
154.2275	138	do	28	PF
154.235	139	do	28	PF
154.2425	140	do	28	PF
154.25	141	do	28	PF
154.2575	142	do	28	PF
154.265	143	do	19, 28	PF
154.2725	144	do	19, 28	PF
154.28	145	do	19, 28	PF
154.2875	146	do	19, 28	PF
154.295	147	do	19, 28	PF
154.3025	148	do	19, 28	PF
154.31	149	do	28	PF
154.3175	150	do	28	PF
154.325	151	do	28	PF
154.3325	152	do	28	PF
154.34	153	do	28	PF
154.3475	154	do	28	PF
154.355	155	do	28	PF
154.3625	156	do	28	PF
154.37	157	do	28	PF
154.3775	158	do	28	PF
154.385	159	do	28	PF
154.3925	160	do	28	PF
154.4	161	do	28	PF
154.4075	162	do	28	PF
154.415	163	do	28	PF
154.4225	164	do	28	PF
154.43	165	do	28	PF
154.4375	166	do	28	PF
154.445	167	do	28, 81	PF
154.4525	168	do	28, 80	PF
154.45625	169	Fixed or mobile	32, 33, 34, 35	PX
154.46375	170	do	33, 34, 35, 36, 37	PX
154.47125	171	do	33, 34, 35, 36	PX
154.47875	172	do	33, 34, 35, 37	PX
154.65	173	Mobile		PP

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
154.6575	174	do		PP
154.665	175	Base or mobile	16	PP
154.6725	176	do	16	PP
154.68	177	do	16	PP
154.6875	178	do	16	PP
154.695	179	do	16	PP
154.7025	180	do	16	PP
154.71	181	Mobile		PP
154.7175	182	do		PP
154.725	183	Base or mobile		PP
154.7325	184	do		PP
154.74	185	do		PP
154.7475	186	do		PP
154.755	187	do		PP
154.7625	188	do		PP
154.77	189	Mobile		PP
154.7775	190	do		PP
154.785	191	Base or mobile		PP
154.7925	192	do		PP
154.8	193	do		PP
154.8075	194	do		PP
154.815	195	do		PP
154.8225	196	do		PP
154.83	197	Mobile		PP
154.8375	198	do		PP
154.845	199	Base or mobile		PP
154.8525	200	do		PP
154.86	201	do		PP
154.8675	202	do		PP
154.875	203	do		PP
154.8825	204	do		PP
154.89	205	Mobile		PP
154.8975	206	do		PP
154.905	207	Base or mobile	16	PP
154.9125	208	do	16	PP
154.92	209	do	16	PP
154.9275	210	do	16	PP
154.935	211	do	16	PP
154.9425	212	do	16	PP
154.95	213	Mobile		PP
154.9575	214	do		PP
154.965	215	Base or mobile		PX
154.9725	216	do		PX
154.98	217	do		PX

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
154.9875	218	do		PX
154.995	219	do		PX
155.0025	220	do		PX
155.01	221	do		PP
155.0175	222	do		PP
155.025	223	do		PX
155.0325	224	do		PX
155.04	225	do		PX
155.0475	226	do		PX
155.055	227	do		PX
155.0625	228	do		PX
155.07	229	do		PP
155.0775	230	do		PP
155.085	231	do		PX
155.0925	232	do		PX
155.1	233	do		PX
155.1075	234	do		PX
155.1115	235	do		PX
155.1225	236	do		PX
155.13	237	do		PP
155.1375	238	do		PP
155.145	239	do		PX
155.1525	240	do		PX
155.16	241	do	10	PS
155.1675	242	do	10	PS
155.175	243	do	10	PS
155.1825	244	do	10	PS
155.19	245	do		PP
155.1975	246	do		PP
155.205	247	do	10	PS
155.2125	248	do	10	PS
155.22	249	do	10	PS
155.2275	250	do	10	PS
155.235	251	do	10	PS
155.2425	252	do	10	PS
155.25	253	do		PP
155.2575	254	do		PP
155.265	255	do	10	PS
155.2725	256	do	10	PS
155.28	257	do	10	PS
155.2875	258	do	10	PS
155.295	259	do	10	PS
155.3025	260	do	10	PS
155.31	261	do		PP

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
155.3175	262	do		PP
155.325	263	do	38, 39	PM
155.3325	264	do	38, 39	PM
155.34	265	do	39, 40	PM
155.3475	266	do	39, 40	PM
155.355	267	do	38, 39	PM
155.3625	268	do	38, 39	PM
155.37	269	do		PP
155.3775	270	do		PP
155.385	271	do	38, 39	PM
155.3925	272	do	38, 39	PM
155.4	273	do	38, 39	PM
155.4075	274	do	38, 39	PM
155.415	275	do		PP
155.4225	276	do		PP
155.43	277	do		PP
155.4375	278	do		PP
155.445	279	do	16	PP
155.4525	280	do	16	PP
155.46	281	do	16	PP
155.4675	282	do	16	PP
155.475	283	do	41	PP
155.4825	284	do	41	PP
155.49	285	do		PP
155.4975	286	do		PP
155.505	287	do	16	PP
155.5125	288	do	16	PP
155.52	289	do		PP
155.5275	290	do		PP
155.535	291	do		PP
155.5425	292	do		PP
155.55	293	do		PP
155.5575	294	do		PP
155.565	295	do		PP
155.5725	296	do		PP
155.58	297	do		PP
155.5875	298	do		PP
155.595	299	do		PP
155.6025	300	do		PP
155.61	301	do		PP
155.6175	302	do		PP
155.625	303	do		PP
155.6325	304	do		PP
155.64	305	do		PP

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
155.6475	306	do		PP
155.655	307	do		PP
155.6625	308	do		PP
155.67	309	do		PP
155.6775	310	do		PP
155.685	311	do		PP
155.6925	312	do		PP
155.7	313	do		PP
155.7075	314	do		PP
155.715	315	do		PX
155.7225	316	do		PX
155.73	317	do		PP
155.7375	318	do		PP
155.745	319	do	81	PX
155.7525	320	do	80, 83	PX
155.76	321	do	81	PX
155.7675	322	do		PX
155.775	323	do		PX
155.7825	324	do		PX
155.79	325	do		PP
155.7975	326	do		PP
155.805	327	do		PX
155.8125	328	do		PX
155.82	329	do		PX
155.8275	330	do		PX
155.835	331	do		PX
155.8425	332	do		PX
155.85	333	Mobile		PP
155.8575	334	do		PP
155.865	335	Base or mobile		PX
155.8725	336	do		PX
155.88	337	do		PX
155.8875	338	do		PX
155.895	339	do		PX
155.9025	340	do		PX
155.91	341	Mobile		PP
155.9175	342	do		PP
155.925	343	Base or mobile		PX
155.9325	344	do		PX
155.94	345	do		PX
155.9475	346	do		PX
155.955	347	do		PX
155.9625	348	do		PX
155.97	349	Mobile		PP

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
155.9775	350	do		PP
155.985	351	do		PX
155.9925	352	do		PX
156	353	do		PX
156.0075	354	do		PX
156.015	355	do		PX
156.0225	356	do		PX
156.03	357	do		PP
156.0375	358	do		PP
156.045	359	do	42	PH
156.0525	360	do	42	PH
156.06	361	do	42	PH
156.0675	362	do	42	PH
156.075	363	do		PH
156.0825	364	do		PH
156.09	365	do		PP
156.0975	366	do		PP
156.105	367	Base or mobile		PH
156.1125	368	do		PH
156.12	369	do		PH
156.1275	370	do		PH
156.135	371	do		PH
156.1425	372	do		PH
156.15	373	Mobile		PP
156.1575	374	do		PP
156.165	375	Base or mobile	42	PH
156.1725	376	do	42	PH
156.18	377	do	42	PH
156.1875	378	do	42	PH
156.195	379	do		PH
156.2025	380	do		PH
156.21	381	do		PP
156.2175	382	do		PP
156.225	383	do		PH
156.2325	384	do		PH
156.24	do		79	PH
157.45	do		13, 45, 30	PS
158.7225	385	do	44	PP
158.73	386	do	81	PP
158.7375	do		80	PP
158.745	387	Base or mobile	81	PX
158.7525	388	do		PX
158.76	389	do		PX
158.7675	390	do		PX

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
158.775	391	do		PX
158.7825	392	do		PX
158.79	393	Base or mobile		PP
158.7975	394	do		PP
158.805	395	Base and mobile		PX
158.8125	396	do		PX
158.82	397	do		PX
158.8275	398	do		PX
158.835	399	do		PX
158.8425	400	do		PX
158.85	401	Base or mobile		PP
158.8575	402	do		PP
158.865	403	Mobile		PX
158.8725	404	do		PX
158.88	405	do		PX
158.8875	406	do		PX
158.895	407	do		PX
158.9025	408	do		PX
158.91	409	do		PP
158.9175	410	do		PP
158.925	411	do		PX
158.9325	412	do		PX
158.94	413	do		PX
158.9475	414	do		PX
158.955	415	do		PX
158.9625	416	do		PX
158.97	417	do		PP
158.9775	418	do		PP
158.985	419	do		PH
158.9925	420	do	43	PH
159	421	do		PH
159.0075	422	do	43	PH
159.015	423	do		PH
159.0225	424	do	43	PH
159.03	425	do		PP
159.0375	426	do		PP
159.045	427	do		PH
159.0525	428	do	43	PH
159.06	429	do		PH
159.0675	430	do	43	PH
159.075	431	do		PH
159.0825	432	do	43	PH
159.09	433	Base or mobile		PP
159.0975	434	do		PP

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
159.105	435	do		PH
159.1125	436	do	43	PH
159.12	437	do		PH
159.1275	438	do	43	PH
159.135	439	do		PH
159.1425	440	do	43	PH
159.15	441	do		PP
159.1575	442	do		PP
159.165	443	do		PH
159.1725	444	do	42	PH
159.18	445	do		PH
159.1875	446	do		PH
159.195	447	do		PH
159.2025	448	do		PH
159.21	449	do		PP
159.2175	450	do		PP
159.225	451	do		PO
159.2325	452	do		PO
159.24	453	do	46	PO
159.2475	454	do	46	PO
159.255	455	do	46	PO
159.2625	456	do	46	PO
159.27	457	do	46	PO
159.2775	458	do	46	PO
159.285	459	do	46	PO
159.2925	460	do	46	PO
159.3	461	do	46	PO
159.3075	462	do	46	PO
159.315	463	do	46	PO
159.3225	464	do	46	PO
159.33	465	do	46	PO
159.3375	466	do	46	PO
159.345	467	do	46	PO
159.3525	468	do	46	PO
159.36	469	do	46	PO
159.3675	470	do	46	PO
159.375	471	do	46	PO
159.3825	472	do	46	PO
159.39	473	do	46	PO
159.3975	474	do	46	PO
159.405	475	do	46	PO
159.4125	476	do	46	PO
159.42	477	do	46	PO
159.4275	478	do	46	PO

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
159.435	479	do	46	PO
159.4425	480	do	46	PO
159.45	481	do		PO
159.4575	482	do		PO
159.465	483	do	81	PO
159.4725	484	do	80	PO
163.25		do	13, 30	PS
166.25		do	47	PF
169 to 172		Mobile	48	
170.15		Base or mobile	47	PF
170.425		do	9, 49, 50	PO
170.475		do	9, 49, 51	PO
170.575		do	9, 49, 50	PO
171.425		do	9, 49, 51	PO
171.475		do	9, 50, 52	PO
171.575		do	9, 49, 51	PO
172.225		do	9, 49, 50	PO
172.275		do	9, 51, 52	PO
172.375		do	9, 49, 50	PO
173.075		do	53	PP
173.20375		Fixed or mobile	33, 34, 35, 36	PX
173.21		do	34, 35, 36, 54	PX
173.2375		do	32, 33, 34, 35	PX
173.2625		do	32, 33, 34, 35	PX
173.2875		do	32, 33, 34, 35	PX
173.3125		do	32, 33, 34, 35	PX
173.3375		do	32, 33, 34, 35	PX
173.3625		do	32, 33, 34, 35	PX
173.39		do	34, 35, 36, 54	PX
173.39625		do	33, 34, 35, 36	PX

Proposed §90.20(c)(5) VHF channel listing (continued) {see petition page 18}

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Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
150 to 170		Base or mobile	27	
150.815		do		LA
150.83		do	28, 29	LA
150.845	1	do		LA
150.8525	2	do		LA
150.86	3	do		LA
150.8675	4	do		LA
150.875	5	do		LA
150.8825	6	do		LA
150.89	7	do		LA
150.8975	8	do		LA
150.905	9	do		LA
150.92	10	do	28, 29	LA
150.935	11	do		LA
150.9425	12	do		LA
150.95	13	do		LA
150.9575	14	do		LA
150.965	15	do		LA
150.9725	16	do		LA
150.98	17	do	8	IP
150.9875	18	do	8	IP
150.995	19	do	31	
151.0025	20	do	31	
151.01	21	do	31	
151.0175	22	do	31	
151.025	23	do	31	
151.0325	24	do	31	
151.04	25	do	31	
151.0475	26	do	31	
151.055		do	31	
151.07		Base	28, 29, 31	
151.085	27	Base or mobile	31	
151.0925	28	do	31	
151.1	29	do	31	
151.1075	30	do	31	
151.115	31	do	31	
151.1225	32	do	31	
151.13	33	do	31	
151.1375	34	do	31	
151.145	35	do	31	
151.1525	36	do	31	
151.16	37	do	31	
151.1675	38	do	31	
151.175		do	31	
151.19		Base	28, 29, 31	
151.205		Base or mobile	31	
151.2125	39	do	31	
151.22	40	do	31	
151.2275	41	do	31	
151.235	42	do	31	
151.2425	43	do	31	
151.25	44	do	31	
151.2575	45	do	31	
151.265	46	do	31	
151.2725	47	do	31	

Proposed §90.35(b)(5) VHF channel listing {see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
151.265	46	do	31	
151.2725	47	do	31	
151.28	48	do	31	
151.2875	49	do	31	
151.295	50	do	31	
151.31		Base	28, 29, 31	
151.325	51	Base or mobile	31	
151.3325	52	do	31	
151.34	53	do	31	
151.3475	54	do	31	
151.355	55	do	31	
151.3625	56	do	31	
151.37	57	do	31	
151.3775	58	do	31	
151.385	59	do	31	
151.3925	60	do	31	
151.4	61	do	31	
151.4075	62	do	31	
151.415	63	do	31	
151.4225	64	do	31	
151.43	65	do	31	
151.4375	66	do	31	
151.445	67	do	31	
151.4525	68	do	31	
151.46	69	do	31	
151.4675	70	do	31	
151.475	71	do	31	
151.4825	72	do	31	
151.49	73	do	13, 32	
151.4975	74	do	32	
151.505	75	do	17	
151.5125	76	do	17	
151.52	77	do		
151.5275	78	do		
151.535	79	do		
151.5425	80	do		
151.55	81	do		
151.5575	82	do		
151.565	83	do		
151.5725	84	do		
151.58	85	do		
151.5875	86	do		
151.595	87	do		
151.6025	88	do		
151.625		do	10	
151.64		do	10, 33	
151.6475	89	do		
151.655	90	do		
151.6625	91	do		
151.67	92	do		
151.6775	93	do		
151.685	94	do		
151.7		do	10, 34	

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
151.715	95	do		
151.7225	96	do		
151.73	97	do		
151.7375	98	do		
151.745		do		
151.76		do	10, 34	
151.775		do		
151.7825	99	do		
151.79	10	do		
151.7975	101	do		
151.805	102	do		
151.82		mobile	12, 14, 35	
151.835		Base or mobile		
151.8425	103	do		
151.85	104	do		
151.8575	105	do		
151.865	106	do		
151.88		mobile	12, 14, 35	
151.895		Base or mobile		
151.9025	107	do		
151.91	108	do		
151.9175	109	do		
151.925	110	do		
151.94		mobile	12, 14, 35	
151.955		Base or Mobile		
151.9625	111	do		
151.97	112	do		
151.9775	113	do		
151.985	114	do		
152.2625		do	33	
152.27	115	do	6	
152.2775	116	do	6	
152.285	117	do	6	
152.2925	118	do	6	
152.3	119	do	6	
152.3075	120	do	6	
152.315	121	do	6	
152.3225	122	do	6	
152.33	123	do	6	
152.3375	124	do	6	
152.345	125	do	6	
152.3525	126	do	6	
152.36	127	do	6	
152.3675	128	do	6	
152.375	129	do	6	
152.3825	130	do	6	
152.39	131	do	6	
152.3975	132	do	6	
152.405	133	do	6	
152.4125	134	do	6	
152.42	135	do	6	
152.4275	136	do	6	
152.435	137	do	6	
152.4425	138	do	6	
152.45	139	do	6	
152.4575	140	do	6	

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
152.465		do	79	
152.48		do	29, 36, 37, 38	
152.8625		do	33	
152.87	141	do		
152.8775	142	do		
152.885	143	do		
152.8925	144	do		
152.9	145	do		
152.9075	146	do		
152.915	147	do		
152.9225	148	do		
152.93	149	do		
152.9375	150	do		
152.945	151	do		
152.9525	152	do		
152.96	153	do		
152.9675	154	do		
152.975	155	do		
152.9825	156	do		
152.99	157	do		
152.9975	158	do		
153.005	159	do		
153.0125	160	do		
153.02	161	do		
153.0275	162	do		
153.035	163	do		IP
153.0425	164	do		IP
153.05	165	do	4, 7	IP
153.0575	166	do	4, 7	IP
153.065	167	do		IP
153.0725	168	do		IP
153.08	169	do	4, 7	IP
153.0875	170	do	4, 7	IP
153.095	171	do		IP
153.1025	172	do	80	IP
153.11	173	do	4, 7	IP
153.1175	174	do	4, 7	IP
153.125	175	do		IP
153.1325	176	do		IP
153.14	177	do	4, 7	IP
153.1475	178	do	4, 7	IP
153.155	179	do		IP
153.1625	180	do		IP
153.17	181	do	4, 7	IP
153.1775	182	do	4, 7	IP
153.185	183	do		IP
153.1925	184	do		IP
153.2	185	do	4, 7	IP
153.2075	186	do	4, 7	IP
153.215	187	do		IP
153.2225	188	do		IP
153.23	189	do	4, 7	IP
153.2375	190	do	4, 7	IP

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
153.245	191	do		IP
153.2525	192	do		IP
153.26	193	do	4, 7	IP
153.2675	194	do	4, 7	IP
153.275	195	do		IP
153.2825	196	do		IP
153.29	197	do	4, 7	IP
153.2975	198	do	4, 7	IP
153.305	199	do		IP
153.3125	200	do		IP
153.32	201	do	4, 7	IP
153.3275	202	do	4, 7	IP
153.335	203	do		IP
153.3425	204	do		IP
153.35	205	do	4, 7	IP
153.3575	206	do	4, 7	IP
153.365	207	do		IP
153.3725	208	do		IP
153.38	209	do		IP
153.3875	210	do		IP
153.395	211	do		IP
153.4025	212	do		IP
153.41	213	do		IW
153.4175	214	do		IW
153.425	215	do	80	IP, IW
153.4325	216	do	80	IP, IW
153.44	217	do	80	IP, IW
153.4475	218	do	80	IP, IW
153.455	219	do	80	IP, IW
153.4625	220	do	80	IP, IW
153.47	221	do		IW
153.4775	222	do		IW
153.485	223	do	80	IP, IW
153.4925	224	do	80	IP, IW
153.5	225	do	80	IP, IW
153.5075	226	do	80	IP, IW
153.515	227	do	80	IP, IW
153.5225	228	do	80	IP, IW
153.53	229	do		IW
153.5375	230	do		IW
153.545	231	do	80	IP, IW
153.5525	232	do	80	IP, IW
153.56	233	do	80	IP, IW
153.5675	234	do	80	IP, IW
153.575	235	do	80	IP, IW
153.5825	236	do	80	IP, IW
153.59	237	do		IW
153.5975	238	do		IW
153.605	239	do	80	IP, IW
153.6125	240	do	80	IP, IW
153.62	241	do	80	IP, IW
153.6275	242	do	80	IP, IW
153.635	243	do	80	IP, IW

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
153.6425	244	do	80	IP, IW
153.65	245	do		IW
153.6575	246	do		IW
153.665	247	do	80	IP, IW
153.6725	248	do	80	IP, IW
153.68	249	do	80	IP, IW
153.6875	250	do	80	IP, IW
153.695	251	do		IW
153.7025	252	do		IW
153.71	253	do		IW
153.7175	254	do		IW
153.725	255	do		IW
153.7325	256	do		IW
154.45625	257	Fixed or mobile	39, 40, 41, 42	
154.46375	258	do	39, 40, 43	
154.47125	259	do	39, 40, 41, 44	
154.47875	260	do	39, 40, 41, 42	
154.4825	261	Base or mobile		
154.49	262	do		
154.4975	263	do		
154.505	264	do		
154.515		do		
154.5275		Mobile	10, 34	
154.54	265	Base or mobile		
154.5475	266	do		
154.555		do	33	
154.585		Mobile	8, 46	IP
154.61		Base or mobile	33	
154.625		do	36, 37, 48	
154.64		Base	36, 37, 48	
157.47	267	Base or mobile	12	LA
157.4775	268	do	12	LA
157.485	269	do	12	LA
157.4925	270	do	12	LA
157.5	271	do	12	LA
157.5075	272	do	12	LA
157.515	273	do	12	LA
157.5225	274	do	12	LA
157.53	275	Mobile	6	
157.5375	276	do	6	
157.545	277	do	6	
157.5525	278	do	6	
157.56	279	Base or mobile	6	
157.5675	280	do	6	
157.575	281	Mobile	6	
157.5825	282	do	6	
157.59	283	do	6	
157.5975	284	do	6	
157.605	285	do	6	
157.6125	286	do	6	
157.62	287	Base or mobile	6	
157.6275	288	do	6	
157.635	289	Mobile	6	

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
157.6425	290	do	6	
157.65	291	do	6	
157.6575	292	do	6	
157.665	293	do	6	
157.6725	294	do	6	
157.68	295	do	6	
157.6875	296	do	6	
157.695	297	do	6	
157.7025	298	do	6	
157.71	299	do	6	
157.7175	300	do	6	
157.725		Base or mobile	79	
157.74		do	29, 36, 37, 38	
158.1225		do	33	IW
158.13	301	do		IW
158.1375	302	do		IW
158.145	303	do		IP, IW
158.1525	304	do		IP, IW
158.16	305	do		IP, IW
158.1675	306	do		IP, IW
158.175	307	do	81	IP, IW
158.1825	308	do	81	IP, IW
158.19	309	do		IW
158.1975	310	do		IW
158.205	311	do	81	IP, IW
158.2125	312	do	81	IP, IW
158.22	313	do	81	IP, IW
158.2275	314	do	81	IP, IW
158.235	315	do	81	IP, IW
158.2425	316	do	81	IP, IW
158.25	317	do		IW
158.2575	318	do		IW
158.265	319	do	81	IP, IW
158.2725	320	do	81	IP, IW
158.28	321	do		IP
158.2875	322	do		IP
158.295	323	do		IP
158.3025	324	do		IP
158.31	325	do	4, 7	IP
158.3175	326	do	4, 7	IP
158.325	327	do		IP
158.3325	328	do		IP
158.34	329	Mobile		
158.3475	330	do		
158.355	331	Base or mobile		IP
158.3625	332	do		IP
158.37	333	do	4, 7	IP
158.3775	334	do	4, 7	IP
158.385	335	do		
158.3925	336	do		
158.4	337	do	17	
158.4075	338	do	17	
158.415	339	do		IP

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
158.4225	340	do		IP
158.43	341	do	4, 7	IP
158.4375	342	do	4, 7	IP
158.445		Mobile	8, 49	IP
158.46		Base or mobile	29, 36, 37, 38, 48	
159.48	343	do	8, 82	IP
159.4875	344	do	8	IP
159.495	345	do		
159.5025	346	do		
159.51	347	do		
159.5175	348	do		
159.525	349	do		
159.5325	350	do		
159.54	351	do		
159.5475	352	do		
159.555	353	do		
159.5625	354	do		
159.57	355	do		
159.5775	356	do		
159.585	357	do		
159.5925	358	do		
159.6	359	do		
159.6075	360	do		
159.615	361	do		
159.6225	362	do		
159.63	363	do		
159.6375	364	do		
159.645	365	do		
159.6525	366	do		
159.66	367	do		
159.6675	368	do		
159.675	369	do		
159.6825	370	do		
159.69	371	do		
159.6975	372	do		
159.705	373	do		
159.7125	374	do		
159.72	375	do		
159.7275	376	do		
159.735	377	do		
159.7425	378	do		
159.75	379	do		
159.7575	380	do		
159.765	381	do		
159.7725	382	do		
159.78	383	do		
159.7875	384	do		
159.795	385	do		
159.8025	386	do		
159.81	387	do		
159.8175	388	do		
159.825	389	do		
159.8325	390	do		

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
159.84	391	do		
159.8475	392	do		
159.855	393	do		
159.8625	394	do		
159.87	395	do		
159.8775	396	do		
159.885	397	do		
159.8925	398	do		
159.9	399	do		
159.9075	400	do		
159.915	401	do		
159.9225	402	do		
159.93	403	do		
159.9375	404	do		
159.945	405	do		
159.9525	406	do		
159.96	407	do		
159.9675	408	do		
159.975	409	do		
159.9825	410	do		
159.99	411	do		
159.9975	412	do		
160.005	413	do		
160.0125	414	do		
160.02	415	do		
160.0275	416	do		
160.035	417	do		
160.0425	418	do		
160.05	419	do		
160.0575	420	do		
160.065	421	do		
160.0725	422	do		
160.08	423	do		
160.0875	424	do		
160.095	425	do		
160.1025	426	do		
160.11	427	do		
160.1175	428	do		
160.125	429	do		
160.1325	430	do		
160.14	431	do		
160.1475	432	do		
160.155	433	do		
160.1625	434	do		
160.17	435	do		
160.1775	436	do		
160.185	437	do		
160.1925	438	do		
160.2	439	do		
160.2075	440	do		
160.215	441	do	50	LR
160.2225	442	do	50	LR
160.23	443	do	50	LR

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
160.2375	444	do	50	LR
160.245	445	do	50	LR
160.2525	446	do	50	LR
160.26	447	do	50	LR
160.2675	448	do	50	LR
160.275	449	do	50	LR
160.2825	450	do	50	LR
160.29	451	do	50	LR
160.2975	452	do	50	LR
160.305	453	do	50	LR
160.3125	454	do	50	LR
160.32	455	do	50	LR
160.3275	456	do	50	LR
160.335	457	do	50	LR
160.3425	458	do	50	LR
160.35	459	do	50	LR
160.3575	460	do	50	LR
160.365	461	do	50	LR
160.3725	462	do	50	LR
160.38	463	do	50	LR
160.3875	464	do	50	LR
160.395	465	do	50	LR
160.4025	466	do	50	LR
160.41	467	do	50, 52	LR
160.4175	468	do	50, 52	LR
160.425	469	do	50, 52	LR
160.4325	470	do	50, 52	LR
160.44	471	do	50, 52	LR
160.4475	472	do	50, 52	LR
160.455	473	do	50, 52	LR
160.4625	474	do	50, 52	LR
160.47	475	do	50, 52	LR
160.4775	476	do	50, 52	LR
160.485	477	do	50, 52	LR
160.4925	478	do	50, 52	LR
160.5	479	do	50, 52	LR
160.5075	480	do	50, 52	LR
160.515	481	do	50, 52	LR
160.5225	482	do	50, 52	LR
160.53	483	do	50, 52	LR
160.5375	484	do	50, 52	LR
160.545	485	do	50, 52	LR
160.5525	486	do	50, 52	LR
160.56	487	do	50, 52	LR
160.5675	488	do	50, 52	LR
160.575	489	do	50, 52	LR
160.5825	490	do	50, 52	LR
160.59	491	do	50, 52	LR
160.5975	492	do	50, 52	LR
160.605	493	do	50, 52	LR
160.6125	494	do	50, 52	LR
160.62	495	do	50	LR
160.6275	496	do	50	LR

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
160.635	497	do	50	LR
160.6425	498	do	50	LR
160.65	499	do	50	LR
160.6575	500	do	50	LR
160.665	501	do	50	LR
160.6725	502	do	50	LR
160.68	503	do	50	LR
160.6875	504	do	50	LR
160.695	505	do	50	LR
160.7025	506	do	50	LR
160.71	507	do	50	LR
160.7175	508	do	50	LR
160.725	509	do	50	LR
160.7325	510	do	50	LR
160.74	511	do	50	LR
160.7475	512	do	50	LR
160.755	513	do	50	LR
160.7625	514	do	50	LR
160.77	515	do	50	LR
160.7775	516	do	50	LR
160.785	517	do	50	LR
160.7925	518	do	50	LR
160.8	519	do	50	LR
160.8075	520	do	50	LR
160.815	521	do	50	LR
160.8225	522	do	50	LR
160.83	523	do	50	LR
160.8375	524	do	50	LR
160.845	525	do	50	LR
160.8525	526	do	50	LR
160.86	527	do	50, 51	LR
160.8675	528	do	50, 51	LR
160.875	529	do	50, 51	LR
160.8825	530	do	50, 51	LR
160.89	531	do	50, 51	LR
160.8975	532	do	50, 51	LR
160.905	533	do	50, 51	LR
160.9125	534	do	50, 51	LR
160.92	535	do	50, 51	LR
160.9275	536	do	50, 51	LR
160.935	537	do	50, 51	LR
160.9425	538	do	50, 51	LR
160.95	539	do	50, 51	LR
160.9575	540	do	50, 51	LR
160.965	541	do	50, 51	LR
160.9725	542	do	50, 51	LR
160.98	543	do	50, 51	LR
160.9875	544	do	50, 51	LR
160.995	545	do	50, 51	LR
161.0025	546	do	50, 51	LR
161.01	547	do	50, 51	LR
161.0175	548	do	50, 51	LR
161.025	549	do	50, 51	LR

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
161.0325	550	do	50, 51	LR
161.04	551	do	50, 51	LR
161.0475	552	do	50, 51	LR
161.055	553	do	50, 51	LR
161.0625	554	do	50, 51	LR
161.07	555	do	50, 51	LR
161.0775	556	do	50, 51	LR
161.085	557	do	50, 51	LR
161.0925	558	do	50, 51	LR
161.1	559	do	50, 51	LR
161.1075	560	do	50, 51	LR
161.115	561	do	50, 51	LR
161.1225	562	do	50, 51	LR
161.13	563	do	50, 51	LR
161.1375	564	do	50, 51	LR
161.145	565	do	50, 51	LR
161.1525	566	do	50, 51	LR
161.16	567	do	50, 51	LR
161.1675	568	do	50, 51	LR
161.175	569	do	50, 51	LR
161.1825	570	do	50, 51	LR
161.19	571	do	50, 51	LR
161.1975	572	do	50, 51	LR
161.205	573	do	50, 51	LR
161.2125	574	do	50, 51	LR
161.22	575	do	50, 51	LR
161.2275	576	do	50, 51	LR
161.235	577	do	50, 51	LR
161.2425	578	do	50, 51	LR
161.25	579	do	50, 51	LR
161.2575	580	do	50, 51	LR
161.265	581	do	50, 51	LR
161.2725	582	do	50, 51	LR
161.28	583	do	50, 51	LR
161.2875	584	do	50, 51	LR
161.295	585	do	50, 51	LR
161.3025	586	do	50, 51	LR
161.31	587	do	50, 51	LR
161.3175	588	do	50, 51	LR
161.325	589	do	50, 51	LR
161.3325	590	do	50, 51	LR
161.34	591	do	50, 51	LR
161.3475	592	do	50, 51	LR
161.355	593	do	50, 51	LR
161.3625	594	do	50, 51	LR
161.37	595	do	50, 51	LR
161.3775	596	do	50, 51	LR
161.385	597	do	50, 52	LR
161.3925	598	do	50, 52	LR
161.4	599	do	50, 52	LR
161.4075	600	do	50, 52	LR
161.415	601	do	50, 52	LR
161.4225	602	do	50, 52	LR

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

Freq. or Band	Channel Number	Class of Stations	Limitations	Coordinator
161.43	603	do	50, 52	LR
161.4375	604	do	50, 52	LR
161.445	605	do	50, 52	LR
161.4525	606	do	50, 52	LR
161.46	607	do	50, 52	LR
161.4675	608	do	50, 52	LR
161.475	609	do	50, 52	LR
161.4825	610	do	50, 52	LR
161.49	611	do	50, 52	LR
161.4975	612	do	50, 52	LR
161.505	613	do	50, 52	LR
161.5125	614	do	50, 52	LR
161.52	615	do	50, 52	LR
161.5275	616	do	50, 52	LR
161.535	617	do	50, 52	LR
161.5425	618	do	50, 52	LR
161.55	619	do	50, 52	LR
161.5575	620	do	50, 52	LR
161.565		do	50, 52	LR
161.61		do	78	LR
169 to 172		Mobile, operational fixed	53	
173.20375		Fixed or mobile	39, 40, 41, 44	
173.21		do	40, 41, 44, 54	
173.225		Base or mobile		
173.2375		Fixed or mobile	39, 40, 41, 42	
173.25		Base or mobile		
173.2625		Fixed or mobile	39, 40, 41, 42	
173.275		Base or mobile		
173.2875		Fixed or mobile	39, 40, 41, 42	
173.3		Base or mobile		
173.3125		Fixed or mobile	39, 40, 41, 42	
173.325		Base or mobile		
173.3375		Fixed or mobile	39, 40, 41, 42	
173.35		Base or mobile		
173.3625		Fixed or mobile	39, 40, 41, 42	
173.375		Base or mobile		
173.39		Fixed or mobile	40, 41, 44, 54	
173.39625		do	39, 40, 41, 44	

Proposed §90.35(b)(5) VHF channel listing (continued){see petition page 18}

APPENDIX B

Proposed §90.20(c)(5) UHF Channel listing	B2 through B18
Proposed §90.35(b)(5) UHF Channel listing	B20 through B71

Note: The channel listings in Appendix B include channel numbers for determining allowed 12.5 kHz channel combinations. The listings do not include “Class of Station” designations, Channel limitations as defined in §90.20(d) and §90.35(c), and Coordinator designations. Channel listings including “Class of Station” designations, Channel limitations as defined in §90.20(d) and §90.35(c), and Coordinator designations, will be provided upon request.

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
453.009375		1
	453.012500	2
453.015625		3
453.034375		7
	453.037500	8
453.040625		9
453.046875		10
	453.050000	11
453.053125		12
453.059375		13
	453.062500	14
453.065625		15
453.071875		
	453.075000	
453.078125		
453.084375		
	453.087500	
453.090625		
453.096875		22
	453.100000	23
453.103125		24
453.109375		25
	453.112500	26
453.115625		27
453.121875		
	453.125000	
453.128125		
453.134375		31
	453.137500	32
453.140625		33
453.146875		34
	453.150000	35
453.153125		36
453.159375		37
	453.162500	38
453.165625		39
453.171875		
	453.175000	
453.178125		
453.184375		43
	453.187500	44
453.190625		45
453.196875		46
	453.200000	47
453.203125		48
453.209375		
	453.212500	
453.215625		
453.221875		52
	453.225000	53
453.228125		54
453.234375		55
	453.237500	56
453.240625		57
453.246875		58
	453.250000	59
453.253125		60

Proposed §90.20(c)(5) UHF channel listing {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
453.259375		61
	453.262500	62
453.265625		63
453.271875		64
	453.275000	65
453.278125		66
453.284375		67
	453.287500	68
453.290625		69
453.296875		70
	453.300000	71
453.303125		72
453.309375		73
	453.312500	74
453.315625		75
453.321875		76
	453.325000	77
453.328125		78
453.334375		79
	453.337500	80
453.340625		81
453.346875		82
	453.350000	83
453.353125		84
453.359375		85
	453.362500	86
453.365625		87
453.371875		88
	453.375000	89
453.378125		90
453.384375		91
	453.387500	92
453.390625		93
453.396875		94
	453.400000	95
453.403125		96
453.409375		97
	453.412500	98
453.415625		99
453.421875		100
	453.425000	101
453.428125		102
453.434375		103
	453.437500	104
453.440625		105
453.446875		106
	453.450000	107
453.453125		108
453.459375		
	453.462500	
453.465625		
453.471875		112
	453.475000	113
453.478125		114
453.484375		115
	453.487500	116
453.490625		117

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
453.496875		118
	453.500000	119
453.503125		120
453.509375		121
	453.512500	122
453.515625		123
453.521875		124
	453.525000	125
453.528125		126
453.534375		127
	453.537500	128
453.540625		129
453.546875		130
	453.550000	131
453.553125		132
453.559375		133
	453.562500	134
453.565625		135
453.571875		136
	453.575000	137
453.578125		138
453.584375		139
	453.587500	140
453.590625		141
453.596875		142
	453.600000	143
453.603125		144
453.609375		145
	453.612500	146
453.615625		147
453.621875		148
	453.625000	149
453.628125		150
453.634375		151
	453.637500	152
453.640625		153
453.646875		154
	453.650000	155
453.653125		156
453.659375		157
	453.662500	158
453.665625		159
453.671875		160
	453.675000	161
453.678125		162
453.684375		163
	453.687500	164
453.690625		165
453.696875		166
	453.700000	167
453.703125		168
453.709375		
	453.712500	
453.715625		
453.721875		172
	453.725000	173
453.728125		174

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
453.734375		175
	453.737500	176
453.740625		177
453.746875		178
	453.750000	179
453.753125		180
453.759375		181
	453.762500	182
453.765625		183
453.771875		184
	453.775000	185
453.778125		186
453.784375		187
	453.787500	188
453.790625		189
453.796875		190
	453.800000	191
453.803125		192
453.809375		193
	453.812500	194
453.815625		195
453.821875		196
	453.825000	197
453.828125		198
453.834375		199
	453.837500	200
453.840625		201
453.846875		202
	453.850000	203
453.853125		204
453.859375		
	453.862500	
453.865625		
453.871875		208
	453.875000	209
453.878125		210
453.884375		211
	453.887500	212
453.890625		213
453.896875		214
	453.900000	215
453.903125		216
453.909375		217
	453.912500	218
453.915625		219
453.921875		220
	453.925000	221
453.928125		222
453.934375		223
	453.937500	224
453.940625		225
453.946875		226
	453.950000	227
453.953125		228
453.959375		229
	453.962500	230
453.965625		231

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
453.971875		232
	453.975000	233
453.978125		234
453.984375		235
	453.987500	236
453.990625		237
	458.012500	242
	458.025000	245
458.034375		247
	458.037500	248
458.040625		249
458.046875		250
	458.050000	251
458.053125		252
458.059375		253
	458.062500	254
458.065625		255
458.071875		256
	458.075000	257
458.078125		258
458.084375		259
	458.087500	260
458.090625		261
458.096875		262
	458.100000	263
458.103125		264
458.109375		265
	458.112500	266
458.115625		267
458.121875		268
	458.125000	269
458.128125		270
458.134375		271
	458.137500	272
458.140625		273
458.146875		274
	458.150000	275
458.153125		276
458.159375		277
	458.162500	278
458.165625		279
458.171875		280
	458.175000	281
458.178125		282
458.184375		283
	458.187500	284
458.190625		285
458.196875		286
	458.200000	287
458.203125		288
458.209375		
	458.212500	
458.215625		
458.221875		292
	458.225000	293
458.228125		294

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
458.234375		295
	458.237500	296
458.240625		297
458.246875		298
	458.250000	299
458.253125		300
458.259375		301
	458.262500	302
458.265625		303
458.271875		304
	458.275000	305
458.278125		306
458.284375		307
	458.287500	308
458.290625		309
458.296875		310
	458.300000	311
458.303125		312
458.309375		313
	458.312500	314
458.315625		315
458.321875		316
	458.325000	317
458.328125		318
458.334375		319
	458.337500	320
458.340625		321
458.346875		322
	458.350000	323
458.353125		324
458.359375		325
	458.362500	326
458.365625		327
458.371875		328
	458.375000	329
458.378125		330
458.384375		331
	458.387500	332
458.390625		333
458.396875		334
	458.400000	335
458.403125		336
458.409375		337
	458.412500	338
458.415625		339
458.421875		340
	458.425000	341
458.428125		342
458.434375		343
	458.437500	344
458.440625		345
458.446875		346
	458.450000	347
458.453125		348

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
458.459375	458.462500	
458.465625		
458.471875		352
	458.475000	353
458.478125		354
458.484375		355
	458.487500	356
458.490625		357
458.496875		358
	458.500000	359
458.503125		360
458.509375		361
	458.512500	362
458.515625		363
458.521875		364
	458.525000	365
458.528125		366
458.534375		367
	458.537500	368
458.540625		369
458.546875		370
	458.550000	371
458.553125		372
458.559375		373
	458.562500	374
458.565625		375
458.571875		376
	458.575000	377
458.578125		378
458.584375		379
	458.587500	380
458.590625		381
458.596875		382
	458.600000	383
458.603125		384
458.609375		385
	458.612500	386
458.615625		387
458.621875		388
	458.625000	389
458.628125		390
458.634375		391
	458.637500	392
458.640625		393
458.646875		394
	458.650000	395
458.653125		396
458.659375		397
	458.662500	398
458.665625		399
458.671875		400
	458.675000	401
458.678125		402

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
458.684375		403
	458.687500	404
458.690625		405
458.696875		406
	458.700000	407
458.703125		408
458.709375		
	458.712500	
458.715625		
458.721875		412
	458.725000	413
458.728125		414
458.734375		415
	458.737500	416
458.740625		417
458.746875		418
	458.750000	419
458.753125		420
458.759375		421
	458.762500	422
458.765625		423
458.771875		424
	458.775000	425
458.778125		426
458.784375		427
	458.787500	428
458.790625		429
458.796875		430
	458.800000	431
458.803125		432
458.809375		433
	458.812500	434
458.815625		435
458.821875		436
	458.825000	437
458.828125		438
458.834375		439
	458.837500	440
458.840625		441
458.846875		442
	458.850000	443
458.853125		444
458.859375		
	458.862500	
458.865625		
458.871875		448
	458.875000	449
458.878125		450
458.884375		451
	458.887500	452
458.890625		453
458.896875		454
	458.900000	455
458.903125		456

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
458.909375		457
	458.912500	458
458.915625		459
458.921875		460
	458.925000	461
458.928125		462
458.934375		463
	458.937500	464
458.940625		465
458.946875		466
	458.950000	467
458.953125		468
458.959375		469
	458.962500	470
458.965625		471
458.971875		472
	458.975000	473
458.978125		474
458.984375		475
	458.987500	476
458.990625		477
460.009375		
	460.012500	
460.015625		
460.021875		484
	460.025000	485
460.028125		486
460.034375		487
	460.037500	488
460.040625		489
460.046875		490
	460.050000	491
460.053125		492
460.059375		493
	460.062500	494
460.065625		495
460.071875		496
	460.075000	497
460.078125		498
460.084375		499
	460.087500	500
460.090625		501
460.096875		502
	460.100000	503
460.103125		504
460.109375		505
	460.112500	506
460.115625		507
460.121875		508
	460.125000	509
460.128125		510
460.134375		511
	460.137500	512
460.140625		513

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
460.146875		514
	460.150000	515
460.153125		516
460.159375		517
	460.162500	518
460.165625		519
460.171875		520
	460.175000	521
460.178125		522
460.184375		523
	460.187500	524
460.190625		525
460.196875		526
	460.200000	527
460.203125		528
460.209375		529
	460.212500	530
460.215625		531
460.221875		532
	460.225000	533
460.228125		534
460.234375		535
	460.237500	536
460.240625		537
460.246875		538
	460.250000	539
460.253125		540
460.259375		541
	460.262500	542
460.265625		543
460.271875		544
	460.275000	545
460.278125		546
460.284375		547
	460.287500	548
460.290625		549
460.296875		550
	460.300000	551
460.303125		552
460.309375		553
	460.312500	554
460.315625		555
460.321875		556
	460.325000	557
460.328125		558
460.334375		559
	460.337500	560
460.340625		561
460.346875		562
	460.350000	563
460.353125		564
460.359375		565
	460.362500	566
460.365625		567

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
460.371875		568
	460.375000	569
460.378125		570
460.384375		571
	460.387500	572
460.390625		573
460.396875		574
	460.400000	575
460.403125		576
460.409375		577
	460.412500	578
460.415625		579
460.421875		580
	460.425000	581
460.428125		582
460.434375		583
	460.437500	584
460.440625		585
460.446875		586
	460.450000	587
460.453125		588
460.459375		589
	460.462500	590
460.465625		591
460.471875		592
	460.475000	593
460.478125		594
460.484375		595
	460.487500	596
460.490625		597
460.496875		598
	460.500000	599
460.503125		600
460.509375		601
	460.512500	602
460.515625		603
460.521875		604
	460.525000	605
460.528125		606
460.534375		607
	460.537500	608
460.540625		609
460.546875		610
	460.550000	611
460.553125		612
460.559375		613
	460.562500	614
460.565625		615
460.571875		616
	460.575000	617
460.578125		618
460.584375		619
	460.587500	620
460.590625		621

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
460.596875		622
	460.600000	623
460.603125		624
460.609375		625
	460.612500	626
460.615625		627
460.621875		628
	460.625000	629
460.628125		630
460.634375		631
	460.637500	632
460.640625		633
462.934375		637
	462.937500	
462.940625		639
462.946875		640
	462.950000	641
462.953125		642
462.959375		643
	462.962500	644
462.965625		645
462.971875		646
	462.975000	647
462.978125		648
462.984375		649
	462.987500	650
462.990625		651
462.996875		652
	463.000000	653
463.003125		654
463.009375		655
	463.012500	656
463.015625		657
463.021875		658
	463.025000	659
463.028125		660
463.034375		661
	463.037500	662
463.040625		663
463.046875		664
	463.050000	665
463.053125		666
463.059375		667
	463.062500	668
463.065625		669
463.071875		670
	463.075000	671
463.078125		672
463.084375		673
	463.087500	674
463.090625		675
463.096875		676
	463.100000	677
463.103125		678

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
463.109375		679
	463.112500	680
463.115625		681
463.121875		682
	463.125000	683
463.128125		684
463.134375		685
	463.137500	686
463.140625		687
463.146875		688
	463.150000	689
463.153125		690
463.159375		691
	463.162500	692
463.165625		693
463.171875		694
	463.175000	695
463.178125		696
463.184375		697
	463.187500	698
463.190625		699
465.009375		703
	465.012500	704
465.015625		705
465.021875		706
	465.025000	707
465.028125		708
465.034375		709
	465.037500	710
465.040625		711
465.046875		712
	465.050000	713
465.053125		714
465.059375		715
	465.062500	716
465.065625		717
465.071875		718
	465.075000	719
465.078125		720
465.084375		721
	465.087500	722
465.090625		723
465.096875		724
	465.100000	725
465.103125		726
465.109375		727
	465.112500	728
465.115625		729
465.121875		730
	465.125000	731
465.128125		732
465.134375		733
	465.137500	734
465.140625		735

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
465.146875		736
	465.150000	737
465.153125		738
465.159375		739
	465.162500	740
465.165625		741
465.171875		742
	465.175000	743
465.178125		744
465.184375		745
	465.187500	746
465.190625		747
465.196875		748
	465.200000	749
465.203125		750
465.209375		751
	465.212500	752
465.215625		753
465.221875		754
	465.225000	755
465.228125		756
465.234375		757
	465.237500	758
465.240625		759
465.246875		760
	465.250000	761
465.253125		762
465.259375		763
	465.262500	764
465.265625		765
465.271875		766
	465.275000	767
465.278125		768
465.284375		769
	465.287500	770
465.290625		771
465.296875		772
	465.300000	773
465.303125		774
465.309375		775
	465.312500	776
465.315625		777
465.321875		778
	465.325000	779
465.328125		780
465.334375		781
	465.337500	782
465.340625		783
465.346875		784
	465.350000	785
465.353125		786
465.359375		787
	465.362500	788
465.365625		789

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
465.371875		790
	465.375000	791
465.378125		792
465.384375		793
	465.387500	794
465.390625		795
465.396875		796
	465.400000	797
465.403125		798
465.409375		799
	465.412500	800
465.415625		801
465.421875		802
	465.425000	803
465.428125		804
465.434375		805
	465.437500	806
465.440625		807
465.446875		808
	465.450000	809
465.453125		810
465.459375		811
	465.462500	812
465.465625		813
465.471875		814
	465.475000	815
465.478125		816
465.484375		817
	465.487500	818
465.490625		819
465.496875		820
	465.500000	821
465.503125		822
465.509375		823
	465.512500	824
465.515625		825
465.521875		826
	465.525000	827
465.528125		828
465.534375		829
	465.537500	830
465.540625		831
465.546875		832
	465.550000	
465.553125		834
465.559375		835
	465.562500	836
465.565625		837
465.571875		838
	465.575000	
465.578125		840
465.584375		841
	465.587500	842
465.590625		843

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
465.596875		844
	465.600000	845
465.603125		846
465.609375		847
	465.612500	848
465.615625		849
465.621875		850
	465.625000	851
465.628125		852
465.634375		853
	465.637500	854
465.640625		855
467.934375		859
	467.937500	860
467.940625		861
467.946875		862
	467.950000	863
467.953125		864
467.959375		865
	467.962500	866
467.965625		867
467.971875		868
	467.975000	869
467.978125		870
467.984375		871
	467.987500	872
467.990625		873
467.996875		874
	468.000000	875
468.003125		876
468.009375		877
	468.012500	878
468.015625		879
468.021875		880
	468.025000	881
468.028125		882
468.034375		883
	468.037500	884
468.040625		885
468.046875		886
	468.050000	887
468.053125		888
468.059375		889
	468.062500	890
468.065625		891
468.071875		892
	468.075000	893
468.078125		894
468.084375		895
	468.087500	896
468.090625		897
468.096875		898
	468.100000	899
468.103125		900

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
468.109375		901
	468.112500	902
468.115625		903
468.121875		904
	468.125000	905
468.128125		906
468.134375		907
	468.137500	908
468.140625		909
468.146875		910
	468.150000	911
468.153125		912
468.159375		913
	468.162500	914
468.165625		915
468.171875		916
	468.175000	917
468.178125		918
468.184375		919
	468.187500	920
468.190625		921

Proposed §90.20(c)(5) UHF channel listing (continued){see petition page 19}

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FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
451.021875		4
	451.025000	5
451.028125		6
451.034375		7
	451.037500	8
451.040625		9
451.046875		10
	451.050000	11
451.053125		12
451.059375		13
	451.062500	14
451.065625		15
451.071875		16
	451.075000	17
451.078125		18
451.084375		19
	451.087500	20
451.090625		21
451.096875		22
	451.100000	23
451.103125		24
451.109375		25
	451.112500	26
451.115625		27
451.121875		28
	451.125000	29
451.128125		30
451.134375		31
	451.137500	32
451.140625		33
451.146875		34
	451.150000	35
451.153125		36
451.159375		37
	451.162500	38
451.165625		39
451.171875		40
	451.175000	41
451.178125		42
451.184375		43
	451.187500	44
451.190625		45
451.196875		46
	451.200000	47
451.203125		48
451.209375		49
	451.212500	50
451.215625		51
451.221875		52
	451.225000	53
451.228125		54
451.234375		55
	451.237500	56
451.240625		57
451.246875		58
	451.250000	59
451.253125		60

Proposed §90.35(b)(5) UHF channel listing {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
451.259375		61
	451.262500	62
451.265625		63
451.271875		64
	451.275000	65
451.278125		66
451.284375		67
	451.287500	68
451.290625		69
451.296875		70
	451.300000	71
451.303125		72
451.309375		73
	451.312500	74
451.315625		75
451.321875		76
	451.325000	77
451.328125		78
451.334375		79
	451.337500	80
451.340625		81
451.346875		82
	451.350000	83
451.353125		84
451.359375		85
	451.362500	86
451.365625		87
451.371875		88
	451.375000	89
451.378125		90
451.384375		91
	451.387500	92
451.390625		93
451.396875		94
	451.400000	95
451.403125		96
451.409375		97
	451.412500	98
451.415625		99
451.421875		100
	451.425000	101
451.428125		102
451.434375		103
	451.437500	104
451.440625		105
451.446875		106
	451.450000	107
451.453125		108
451.459375		109
	451.462500	110
451.465625		111
451.471875		112
	451.475000	113
451.478125		114
451.484375		115
	451.487500	116
451.490625		117

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
451.496875		118
	451.500000	119
451.503125		120
451.509375		121
	451.512500	122
451.515625		123
451.521875		124
	451.525000	125
451.528125		126
451.534375		127
	451.537500	128
451.540625		129
451.546875		130
	451.550000	131
451.553125		132
451.559375		133
	451.562500	134
451.565625		135
451.571875		136
	451.575000	137
451.578125		138
451.584375		139
	451.587500	140
451.590625		141
451.596875		142
	451.600000	143
451.603125		144
451.609375		145
	451.612500	146
451.615625		147
451.621875		148
	451.625000	149
451.628125		150
451.634375		151
	451.637500	152
451.640625		153
451.646875		154
	451.650000	155
451.653125		156
451.659375		157
	451.662500	158
451.665625		159
451.671875		160
	451.675000	161
451.678125		162
451.684375		163
	451.687500	164
451.690625		165
451.696875		166
	451.700000	167
451.703125		168
451.709375		169
	451.712500	170
451.715625		171
451.721875		172
	451.725000	173
451.728125		174

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
451.734375		175
	451.737500	176
451.740625		177
451.746875		178
	451.750000	179
451.753125		180
451.759375		181
	451.762500	182
451.765625		183
451.771875		184
	451.775000	185
451.778125		186
451.784375		187
	451.787500	188
451.790625		189
451.796875		190
	451.800000	191
451.803125		192
451.809375		193
	451.812500	194
451.815625		195
451.821875		196
	451.825000	197
451.828125		198
451.834375		199
	451.837500	200
451.840625		201
451.846875		202
	451.850000	203
451.853125		204
451.859375		205
	451.862500	206
451.865625		207
451.871875		208
	451.875000	209
451.878125		210
451.884375		211
	451.887500	212
451.890625		213
451.896875		214
	451.900000	215
451.903125		216
451.909375		217
	451.912500	218
451.915625		219
451.921875		220
	451.925000	221
451.928125		222
451.934375		223
	451.937500	224
451.940625		225
451.946875		226
	451.950000	227
451.953125		228
451.959375		229
	451.962500	230
451.965625		231

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
451.971875		232
	451.975000	233
451.978125		234
451.984375		235
	451.987500	236
451.990625		237
451.996875		238
	452.000000	239
452.003125		240
452.009375		241
	452.012500	242
452.015625		243
452.021875		244
	452.025000	245
452.028125		246
452.034375		247
	452.037500	248
452.040625		249
452.046875		250
	452.050000	251
452.053125		252
452.059375		253
	452.062500	254
452.065625		255
452.071875		256
	452.075000	257
452.078125		258
452.084375		259
	452.087500	260
452.090625		261
452.096875		262
	452.100000	263
452.103125		264
452.109375		265
	452.112500	266
452.115625		267
452.121875		268
	452.125000	269
452.128125		270
452.134375		271
	452.137500	272
452.140625		273
452.146875		274
	452.150000	275
452.153125		276
452.159375		277
	452.162500	278
452.165625		279
452.171875		280
	452.175000	281
452.178125		282
452.184375		283
	452.187500	284
452.190625		285
452.196875		286
	452.200000	287
452.203125		288

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
452.209375		289
	452.212500	290
452.215625		291
452.221875		292
	452.225000	293
452.228125		294
452.234375		295
	452.237500	296
452.240625		297
452.246875		298
	452.250000	299
452.253125		300
452.259375		301
	452.262500	302
452.265625		303
452.271875		304
	452.275000	305
452.278125		306
452.284375		307
	452.287500	308
452.290625		309
452.296875		310
	452.300000	311
452.303125		312
452.309375		313
	452.312500	314
452.315625		315
452.321875		316
	452.325000	317
452.328125		318
452.334375		319
	452.337500	320
452.340625		321
452.346875		322
	452.350000	323
452.353125		324
452.359375		325
	452.362500	326
452.365625		327
452.371875		328
	452.375000	329
452.378125		330
452.384375		331
	452.387500	332
452.390625		333
452.396875		334
	452.400000	335
452.403125		336
452.409375		337
	452.412500	338
452.415625		339
452.421875		340
	452.425000	341
452.428125		342
452.434375		343
	452.437500	344
452.440625		345

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
452.446875		346
	452.450000	347
452.453125		348
452.459375		349
	452.462500	350
452.465625		351
452.471875		352
	452.475000	353
452.478125		354
452.484375		355
	452.487500	356
452.490625		357
452.496875		358
	452.500000	359
452.503125		360
452.509375		361
	452.512500	362
452.515625		363
452.521875		364
	452.525000	365
452.528125		366
452.534375		367
	452.537500	368
452.540625		369
452.546875		370
	452.550000	371
452.553125		372
452.559375		373
	452.562500	374
452.565625		375
452.571875		376
	452.575000	377
452.578125		378
452.584375		379
	452.587500	380
452.590625		381
452.596875		382
	452.600000	383
452.603125		384
452.609375		385
	452.612500	386
452.615625		387
452.621875		388
	452.625000	389
452.628125		390
452.634375		391
	452.637500	392
452.640625		393
452.646875		394
	452.650000	395
452.653125		396
452.659375		397
	452.662500	398
452.665625		399
452.671875		400
	452.675000	401
452.678125		402

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
452.684375		403
	452.687500	404
452.690625		405
452.696875		406
	452.700000	407
452.703125		408
452.709375		409
	452.712500	410
452.715625		411
452.721875		412
	452.725000	413
452.728125		414
452.734375		415
	452.737500	416
452.740625		417
452.746875		418
	452.750000	419
452.753125		420
452.759375		421
	452.762500	422
452.765625		423
452.771875		424
	452.775000	425
452.778125		426
452.784375		427
	452.787500	428
452.790625		429
452.796875		430
	452.800000	431
452.803125		432
452.809375		433
	452.812500	434
452.815625		435
452.821875		436
	452.825000	437
452.828125		438
452.834375		439
	452.837500	440
452.840625		441
452.846875		442
	452.850000	443
452.853125		444
452.859375		445
	452.862500	446
452.865625		447
452.871875		448
	452.875000	449
452.878125		450
452.884375		451
	452.887500	452
452.890625		453
452.896875		454
	452.900000	455
452.903125		456
452.909375		457
	452.912500	458
452.915625		459

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
452.921875		460
	452.925000	461
452.928125		462
452.934375		463
	452.937500	464
452.940625		465
452.946875		466
	452.950000	467
452.953125		468
452.959375		469
	452.962500	470
452.965625		471
452.971875		472
	452.975000	473
452.978125		474
452.984375		475
	452.987500	476
452.990625		477
452.996875		478
	453.000000	479
453.003125		480
453.009375		481
	453.012500	482
453.015625		483
453.996875		490
	454.000000	491
454.003125		492
456.021875		496
	456.025000	497
456.028125		498
456.034375		499
	456.037500	500
456.040625		501
456.046875		502
	456.050000	503
456.053125		504
456.059375		505
	456.062500	506
456.065625		507
456.071875		508
	456.075000	509
456.078125		510
456.084375		511
	456.087500	512
456.090625		513
456.096875		514
	456.100000	515
456.103125		516
456.109375		517
	456.112500	518
456.115625		519
456.121875		520
	456.125000	521
456.128125		522
456.134375		523
	456.137500	524
456.140625		525

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
456.146875		526
	456.150000	527
456.153125		528
456.159375		529
	456.162500	530
456.165625		531
456.171875		532
	456.175000	533
456.178125		534
456.184375		535
	456.187500	536
456.190625		537
456.196875		538
	456.200000	539
456.203125		540
456.209375		541
	456.212500	542
456.215625		543
456.221875		544
	456.225000	545
456.228125		546
456.234375		547
	456.237500	548
456.240625		549
456.246875		550
	456.250000	551
456.253125		552
456.259375		553
	456.262500	554
456.265625		555
456.271875		556
	456.275000	557
456.278125		558
456.284375		559
	456.287500	560
456.290625		561
456.296875		562
	456.300000	563
456.303125		564
456.309375		565
	456.312500	566
456.315625		567
456.321875		568
	456.325000	569
456.328125		570
456.334375		571
	456.337500	572
456.340625		573
456.346875		574
	456.350000	575
456.353125		576
456.359375		577
	456.362500	578
456.365625		579
456.371875		580
	456.375000	581
456.378125		582

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
456.384375		583
	456.387500	584
456.390625		585
456.396875		586
	456.400000	587
456.403125		588
456.409375		589
	456.412500	590
456.415625		591
456.421875		592
	456.425000	593
456.428125		594
456.434375		595
	456.437500	596
456.440625		597
456.446875		598
	456.450000	599
456.453125		600
456.459375		601
	456.462500	602
456.465625		603
456.471875		604
	456.475000	605
456.478125		606
456.484375		607
	456.487500	608
456.490625		609
456.496875		610
	456.500000	611
456.503125		612
456.509375		613
	456.512500	614
456.515625		615
456.521875		616
	456.525000	617
456.528125		618
456.534375		619
	456.537500	620
456.540625		621
456.546875		622
	456.550000	623
456.553125		624
456.559375		625
	456.562500	626
456.565625		627
456.571875		628
	456.575000	629
456.578125		630
456.584375		631
	456.587500	632
456.590625		633
456.596875		634
	456.600000	635
456.603125		636
456.609375		637
	456.612500	638
456.615625		639

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
456.621875		640
	456.625000	641
456.628125		642
456.634375		643
	456.637500	644
456.640625		645
456.646875		646
	456.650000	647
456.653125		648
456.659375		649
	456.662500	650
456.665625		651
456.671875		652
	456.675000	653
456.678125		654
456.684375		655
	456.687500	656
456.690625		657
456.696875		658
	456.700000	659
456.703125		660
456.709375		661
	456.712500	662
456.715625		663
456.721875		664
	456.725000	665
456.728125		666
456.734375		667
	456.737500	668
456.740625		669
456.746875		670
	456.750000	671
456.753125		672
456.759375		673
	456.762500	674
456.765625		675
456.771875		676
	456.775000	677
456.778125		678
456.784375		679
	456.787500	680
456.790625		681
456.796875		688
	456.800000	689
456.803125		690
456.809375		691
	456.812500	692
456.815625		693
456.821875		700
	456.825000	701
456.828125		702
456.834375		703
	456.837500	704
456.840625		705
456.846875		706
	456.850000	707
456.853125		708

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
456.859375		709
	456.862500	710
456.865625		711
456.871875		712
	456.875000	713
456.878125		714
456.884375		715
	456.887500	716
456.890625		717
456.896875		718
	456.900000	719
456.903125		720
456.909375		721
	456.912500	722
456.915625		723
456.921875		724
	456.925000	725
456.928125		726
456.934375		727
	456.937500	728
456.940625		729
456.946875		730
	456.950000	731
456.953125		732
456.959375		733
	456.962500	734
456.965625		735
456.971875		736
	456.975000	737
456.978125		738
456.984375		739
	456.987500	740
456.990625		741
456.996875		742
	457.000000	743
457.003125		744
457.009375		745
	457.012500	746
457.015625		747
457.021875		748
	457.025000	749
457.028125		750
457.034375		751
	457.037500	752
457.040625		753
457.046875		754
	457.050000	755
457.053125		756
457.059375		757
	457.062500	758
457.065625		759
457.071875		760
	457.075000	761
457.078125		762
457.084375		763
	457.087500	764
457.090625		765

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
457.096875		766
	457.100000	767
457.103125		768
457.109375		769
	457.112500	770
457.115625		771
457.121875		772
	457.125000	773
457.128125		774
457.134375		775
	457.137500	776
457.140625		777
457.146875		778
	457.150000	779
457.153125		780
457.159375		781
	457.162500	782
457.165625		783
457.171875		784
	457.175000	785
457.178125		786
457.184375		787
	457.187500	788
457.190625		789
457.196875		790
	457.200000	791
457.203125		792
457.209375		793
	457.212500	794
457.215625		795
457.221875		796
	457.225000	797
457.228125		798
457.234375		799
	457.237500	800
457.240625		801
457.246875		802
	457.250000	803
457.253125		804
457.259375		805
	457.262500	806
457.265625		807
457.271875		808
	457.275000	809
457.278125		810
457.284375		811
	457.287500	812
457.290625		813
457.296875		814
	457.300000	815
457.303125		816
457.309375		817
	457.312500	818
457.315625		819
457.321875		820
	457.325000	821
457.328125		822

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
457.334375		823
	457.337500	824
457.340625		825
457.346875		826
	457.350000	827
457.353125		828
457.359375		829
	457.362500	830
457.365625		831
457.371875		832
	457.375000	833
457.378125		834
457.384375		835
	457.387500	836
457.390625		837
457.396875		838
	457.400000	839
457.403125		840
457.409375		841
	457.412500	842
457.415625		843
457.421875		844
	457.425000	845
457.428125		846
457.434375		847
	457.437500	848
457.440625		849
457.446875		850
	457.450000	851
457.453125		852
457.459375		853
	457.462500	854
457.465625		855
457.471875		856
	457.475000	857
457.478125		858
457.484375		859
	457.487500	860
457.490625		861
457.496875		862
	457.500000	863
457.503125		864
457.509375		865
	457.512500	866
457.515625		867
457.521875		868
	457.525000	869
457.528125		870
457.534375		871
	457.537500	872
457.540625		873
457.546875		874
	457.550000	875
457.553125		876
457.559375		877
	457.562500	878
457.565625		879

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
457.571875		880
	457.575000	881
457.578125		882
457.584375		883
	457.587500	884
457.590625		885
457.596875		886
	457.600000	887
457.603125		888
457.609375		889
	457.612500	890
457.615625		891
457.621875		892
	457.625000	893
457.628125		894
457.634375		895
	457.637500	896
457.640625		897
457.646875		898
	457.650000	899
457.653125		900
457.659375		901
	457.662500	902
457.665625		903
457.671875		904
	457.675000	905
457.678125		906
457.684375		907
	457.687500	908
457.690625		909
457.696875		910
	457.700000	911
457.703125		912
457.709375		913
	457.712500	914
457.715625		915
457.721875		916
	457.725000	917
457.728125		918
457.734375		919
	457.737500	920
457.740625		921
457.746875		922
	457.750000	923
457.753125		924
457.759375		925
	457.762500	926
457.765625		927
457.771875		928
	457.775000	929
457.778125		930
457.784375		931
	457.787500	932
457.790625		933
457.796875		934
	457.800000	935
457.803125		936

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
457.809375		937
	457.812500	938
457.815625		939
457.821875		940
	457.825000	941
457.828125		942
457.834375		943
	457.837500	944
457.840625		945
457.846875		946
	457.850000	947
457.853125		948
457.859375		949
	457.862500	950
457.865625		951
457.871875		952
	457.875000	953
457.878125		954
457.884375		955
	457.887500	956
457.890625		957
457.896875		958
	457.900000	959
457.903125		960
457.909375		961
	457.912500	962
457.915625		963
457.921875		964
	457.925000	965
457.928125		966
457.934375		967
	457.937500	968
457.940625		969
457.946875		970
	457.950000	971
457.953125		972
457.959375		973
	457.962500	974
457.965625		975
457.971875		976
	457.975000	977
457.978125		978
457.984375		979
	457.987500	980
457.990625		981
457.996875		982
	458.000000	983
458.003125		984
458.009375		985
	458.012500	986
458.015625		987
458.006875		994
	459.000000	995
459.003125		996
460.646875		997
	460.650000	1001
460.653125		1002

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
460.659375		1003
	460.662500	1004
460.665625		1005
460.671875		1006
	460.675000	1007
460.678125		1008
460.684375		1009
	460.687500	1010
460.690625		1011
460.696875		1012
	460.700000	1013
460.703125		1014
460.709375		1015
	460.712500	1016
460.715625		1017
460.721875		1018
	460.725000	1019
460.728125		1020
460.734375		1021
	460.737500	1022
460.740625		1023
460.746875		1024
	460.750000	1025
460.753125		1026
460.759375		1027
	460.762500	1028
460.765625		1029
460.771875		1030
	460.775000	1031
460.778125		1032
460.784375		1033
	460.787500	1034
460.790625		1035
460.796875		1036
	460.800000	1037
460.803125		1038
460.809375		1039
	460.812500	1040
460.815625		1041
460.821875		1042
	460.825000	1043
460.828125		1044
460.834375		1045
	460.837500	1046
460.840625		1047
460.846875		1048
	460.850000	1049
460.853125		1050
460.859375		1051
	460.862500	1052
460.865625		1053
460.871875		1054
	460.875000	1055
460.878125		1056
460.884375		1057
	460.887500	1058
460.890625		1059

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
460.896875		1060
	460.900000	1061
460.903125		1062
460.909375		1063
	460.912500	1064
460.915625		1065
460.921875		1066
	460.925000	1067
460.928125		1068
460.934375		1069
	460.937500	1070
460.940625		1071
460.946875		1072
	460.950000	1073
460.953125		1074
460.959375		1075
	460.962500	1076
460.965625		1077
460.971875		1078
	460.975000	1079
460.978125		1080
460.984375		1081
	460.987500	1082
460.990625		1083
460.996875		1084
	461.000000	1085
461.003125		1086
461.009375		1087
	461.012500	1088
461.015625		1089
461.021875		1090
	461.025000	1091
461.028125		1092
461.034375		1093
	461.037500	1094
461.040625		1095
461.046875		1102
	461.050000	1103
461.053125		1104
461.059375		1105
	461.062500	1106
461.065625		1107
461.071875		1114
	461.075000	1115
461.078125		1116
461.084375		1117
	461.087500	1118
461.090625		1119
461.096875		1126
	461.100000	1127
461.103125		1128
461.109375		1129
	461.112500	1130
461.115625		1127
461.121875		1138
	461.125000	1139
461.128125		1140

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
461.134375		1141
	461.137500	1142
461.140625		1143
461.146875		1150
	461.150000	1151
461.153125		1152
461.159375		1153
	461.162500	1154
461.165625		1155
461.171875		1162
	461.175000	1163
461.178125		1164
461.184375		1165
	461.187500	1166
461.190625		1167
461.196875		1174
	461.200000	1175
461.203125		1176
461.209375		1177
	461.212500	1178
461.215625		1179
461.221875		1186
	461.225000	1187
461.228125		1188
461.234375		1189
	461.237500	1190
461.240625		1191
461.246875		1198
	461.250000	1199
461.253125		1200
461.259375		1201
	461.262500	1202
461.265625		1203
461.271875		1210
	461.275000	1211
461.278125		1212
461.284375		1213
	461.287500	1214
461.290625		1215
461.296875		1222
	461.300000	1223
461.303125		1224
461.309375		1225
	461.312500	1226
461.315625		1227
461.321875		1234
	461.325000	1235
461.328125		1236
461.334375		1237
	461.337500	1238
461.340625		1239
461.346875		1246
	461.350000	1247
461.353125		1248
461.359375		1249
	461.362500	1250
461.365625		1251

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
461.371875		1258
	461.375000	1259
461.378125		1260
461.384375		1261
	461.387500	1262
461.390625		1263
461.396875		1264
	461.400000	1265
461.403125		1266
461.409375		1267
	461.412500	1268
461.415625		1269
461.421875		1270
	461.425000	1271
461.428125		1272
461.434375		1273
	461.437500	1274
461.440625		1275
461.446875		1276
	461.450000	1277
461.453125		1278
461.459375		1279
	461.462500	1280
461.465625		1281
461.471875		1282
	461.475000	1283
461.478125		1284
461.484375		1285
	461.487500	1286
461.490625		1287
461.496875		1288
	461.500000	1289
461.503125		1290
461.509375		1291
	461.512500	1292
461.515625		1293
461.521875		1294
	461.525000	1295
461.528125		1296
461.534375		1297
	461.537500	1298
461.540625		1299
461.546875		1300
	461.550000	1301
461.553125		1302
461.559375		1303
	461.562500	1304
461.565625		1305
461.571875		1306
	461.575000	1307
461.578125		1308
461.584375		1309
	461.587500	1310
461.590625		1311
461.596875		1312
	461.600000	1313
461.603125		1314

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
461.609375		1315
	461.612500	1316
461.615625		1317
461.621875		1318
	461.625000	1319
461.628125		1320
461.634375		1321
	461.637500	1322
461.640625		1323
461.646875		1324
	461.650000	1325
461.653125		1326
461.659375		1327
	461.662500	1328
461.665625		1329
461.671875		1330
	461.675000	1331
461.678125		1332
461.684375		1333
	461.687500	1334
461.690625		1335
461.696875		1336
	461.700000	1337
461.703125		1338
461.709375		1339
	461.712500	1340
461.715625		1341
461.721875		1342
	461.725000	1343
461.728125		1344
461.734375		1345
	461.737500	1346
461.740625		1347
461.746875		1348
	461.750000	1349
461.753125		1350
461.759375		1351
	461.762500	1352
461.765625		1353
461.771875		1354
	461.775000	1355
461.778125		1356
461.784375		1357
	461.787500	1358
461.790625		1359
461.796875		1360
	461.800000	1361
461.803125		1362
461.809375		1363
	461.812500	1364
461.815625		1365
461.821875		1366
	461.825000	1367
461.828125		1368
461.834375		1369
	461.837500	1370
461.840625		1371

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
461.846875		1372
	461.850000	1373
461.853125		1374
461.859375		1375
	461.862500	1376
461.865625		1377
461.871875		1378
	461.875000	1379
461.878125		1380
461.884375		1381
	461.887500	1382
461.890625		1383
461.896875		1384
	461.900000	1385
461.903125		1386
461.909375		1387
	461.912500	1388
461.915625		1389
461.921875		1390
	461.925000	1391
461.928125		1392
461.934375		1393
	461.937500	1394
461.940625		1395
461.946875		1396
	461.950000	1397
461.953125		1398
461.959375		1399
	461.962500	1400
461.965625		1401
461.971875		1402
	461.975000	1403
461.978125		1404
461.984375		1405
	461.987500	1406
461.990625		1407
461.996875		1408
	462.000000	1409
462.003125		1410
462.009375		1411
	462.012500	1412
462.015625		1413
462.021875		1414
	462.025000	1415
462.028125		1416
462.034375		1417
	462.037500	1418
462.040625		1419
462.046875		1420
	462.050000	1421
462.053125		1422
462.059375		1423
	462.062500	1424
462.065625		1425
462.071875		1426
	462.075000	1427
462.078125		1428

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
462.084375		1429
	462.087500	1430
462.090625		1431
462.096875		1432
	462.100000	1433
462.103125		1434
462.109375		1435
	462.112500	1436
462.115625		1437
462.121875		1438
	462.125000	1439
462.128125		1440
462.134375		1441
	462.137500	1442
462.140625		1443
462.146875		1444
	462.150000	1445
462.153125		1446
462.159375		1447
	462.162500	1448
462.165625		1449
462.171875		1450
	462.175000	1451
462.178125		1452
462.184375		1453
	462.187500	1454
462.190625		1455
462.196875		1456
	462.200000	1457
462.203125		1458
462.209375		1459
	462.212500	1460
462.215625		1461
462.221875		1462
	462.225000	1463
462.228125		1464
462.234375		1465
	462.237500	1466
462.240625		1467
462.246875		1468
	462.250000	1469
462.253125		1470
462.259375		1471
	462.262500	1472
462.265625		1473
462.271875		1474
	462.275000	1475
462.278125		1476
462.284375		1477
	462.287500	1478
462.290625		1479
462.296875		1480
	462.300000	1481
462.303125		1482
462.309375		1483
	462.312500	1484
462.315625		1485

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
462.321875		1486
	462.325000	1487
462.328125		1488
462.334375		1489
	462.337500	1490
462.340625		1491
462.346875		1492
	462.350000	1493
462.353125		1494
462.359375		1495
	462.362500	1496
462.365625		1497
462.371875		1498
	462.375000	1499
462.378125		1500
462.384375		1501
	462.387500	1502
462.390625		1503
462.396875		1504
	462.400000	1505
462.403125		1506
462.409375		1507
	462.412500	1508
462.415625		1509
462.421875		1510
	462.425000	1511
462.428125		1512
462.434375		1513
	462.437500	1514
462.440625		1515
462.446875		1516
	462.450000	1517
462.453125		1518
462.459375		1519
	462.462500	1520
462.465625		1521
462.471875		1522
	462.475000	1523
462.478125		1524
462.484375		1525
	462.487500	1526
462.490625		1527
462.496875		1528
	462.500000	1529
462.503125		1530
462.509375		1531
	462.512500	1532
462.515625		1533
462.521875		1534
	462.525000	1535
462.528125		1536
462.746875		1546
	462.750000	1547
462.753125		1548
462.759375		1549
	462.762500	1550
462.765625		1551

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
462.771875		1558
	462.775000	1559
462.778125		1560
462.784375		1561
	462.787500	1562
462.790625		1563
462.796875		1570
	462.800000	1571
462.803125		1572
462.809375		1573
	462.812500	1574
462.815625		1575
462.821875		1582
	462.825000	1583
462.828125		1584
462.834375		1585
	462.837500	1586
462.840625		1587
462.846875		1594
	462.850000	1595
462.853125		1596
462.859375		1597
	462.862500	1598
462.865625		1599
462.871875		1606
	462.875000	1607
462.878125		1608
462.884375		1609
	462.887500	1610
462.890625		1611
462.896875		1618
	462.900000	1619
462.903125		1620
462.909375		1621
	462.912500	1622
462.915625		1623
462.921875		1630
	462.925000	1631
462.928125		1632
462.934375		1633
	462.937500	1634
462.940625		1635
463.196875		1642
	463.200000	1643
463.203125		1644
463.209375		1645
	463.212500	1646
463.215625		1647
463.221875		1648
	463.225000	1649
463.228125		1650
463.234375		1651
	463.237500	1652
463.240625		1653
463.246875		1654
	463.250000	1655
463.253125		1656

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
463.259375		1657
	463.262500	1658
463.265625		1659
463.271875		1660
	463.275000	1661
463.278125		1662
463.284375		1663
	463.287500	1664
463.290625		1665
463.296875		1666
	463.300000	1667
463.303125		1668
463.309375		1669
	463.312500	1670
463.315625		1671
463.321875		1672
	463.325000	1673
463.328125		1674
463.334375		1675
	463.337500	1676
463.340625		1677
463.346875		1678
	463.350000	1679
463.353125		1680
463.359375		1681
	463.362500	1682
463.365625		1683
463.371875		1684
	463.375000	1685
463.378125		1686
463.384375		1687
	463.387500	1688
463.390625		1689
463.396875		1690
	463.400000	1691
463.403125		1692
463.409375		1693
	463.412500	1694
463.415625		1695
463.421875		1696
	463.425000	1697
463.428125		1698
463.434375		1699
	463.437500	1700
463.440625		1701
463.446875		1702
	463.450000	1703
463.453125		1704
463.459375		1705
	463.462500	1706
463.465625		1707
463.471875		1708
	463.475000	1709
463.478125		1710
463.484375		1711
	463.487500	1712
463.490625		1713

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
463.496875		1714
	463.500000	1715
463.503125		1716
463.509375		1717
	463.512500	1718
463.515625		1719
463.521875		1720
	463.525000	1721
463.528125		1722
463.534375		1723
	463.537500	1724
463.540625		1725
463.546875		1726
	463.550000	1727
463.553125		1728
463.559375		1729
	463.562500	1730
463.565625		1731
463.571875		1732
	463.575000	1733
463.578125		1734
463.584375		1735
	463.587500	1736
463.590625		1737
463.596875		1738
	463.600000	1739
463.603125		1740
463.609375		1741
	463.612500	1742
463.615625		1743
463.621875		1744
	463.625000	1745
463.628125		1746
463.634375		1747
	463.637500	1748
463.640625		1749
463.646875		1750
	463.650000	1751
463.653125		1752
463.659375		1753
	463.662500	1754
463.665625		1755
463.671875		1756
	463.675000	1757
463.678125		1758
463.684375		1759
	463.687500	1760
463.690625		1761
463.696875		1762
	463.700000	1763
463.703125		1764
463.709375		1765
	463.712500	1766
463.715625		1767
463.721875		1768
	463.725000	1769
463.728125		1770

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
463.734375		1771
	463.737500	1772
463.740625		1773
463.746875		1774
	463.750000	1775
463.753125		1776
463.759375		1777
	463.762500	1778
463.765625		1779
463.771875		1780
	463.775000	1781
463.778125		1782
463.784375		1783
	463.787500	1784
463.790625		1785
463.796875		1786
	463.800000	1787
463.803125		1788
463.809375		1789
	463.812500	1790
463.815625		1791
463.821875		1792
	463.825000	1793
463.828125		1794
463.834375		1795
	463.837500	1796
463.840625		1797
463.846875		1798
	463.850000	1799
463.853125		1800
463.859375		1801
	463.862500	1802
463.865625		1803
463.871875		1804
	463.875000	1805
463.878125		1806
463.884375		1807
	463.887500	1808
463.890625		1809
463.896875		1810
	463.900000	1811
463.903125		1812
463.909375		1813
	463.912500	1814
463.915625		1815
463.921875		1816
	463.925000	1817
463.928125		1818
463.934375		1819
	463.937500	1820
463.940625		1821
463.946875		1822
	463.950000	1823
463.953125		1824
463.959375		1825
	463.962500	1826
463.965625		1827

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
463.971875		1828
	463.975000	1829
463.978125		1830
463.984375		1831
	463.987500	1832
463.990625		1833
463.996875		1834
	464.000000	1835
464.003125		1836
464.009375		1837
	464.012500	1838
464.015625		1839
464.021875		1840
	464.025000	1841
464.028125		1842
464.034375		1843
	464.037500	1844
464.040625		1845
464.046875		1846
	464.050000	1847
464.053125		1848
464.059375		1849
	464.062500	1850
464.065625		1851
464.071875		1852
	464.075000	1853
464.078125		1854
464.084375		1855
	464.087500	1856
464.090625		1857
464.096875		1858
	464.100000	1859
464.103125		1860
464.109375		1861
	464.112500	1862
464.115625		1863
464.121875		1864
	464.125000	1865
464.128125		1866
464.134375		1867
	464.137500	1868
464.140625		1869
464.146875		1870
	464.150000	1871
464.153125		1872
464.159375		1873
	464.162500	1874
464.165625		1875
464.171875		1876
	464.175000	1877
464.178125		1878
464.184375		1879
	464.187500	1880
464.190625		1881
464.196875		1882
	464.200000	1883
464.203125		1884

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
464.209375		1885
	464.212500	1886
464.215625		1887
464.221875		1888
	464.225000	1889
464.228125		1890
464.234375		1891
	464.237500	1892
464.240625		1893
464.246875		1894
	464.250000	1895
464.253125		1896
464.259375		1897
	464.262500	1898
464.265625		1899
464.271875		1900
	464.275000	1901
464.278125		1902
464.284375		1903
	464.287500	1904
464.290625		1905
464.296875		1906
	464.300000	1907
464.303125		1908
464.309375		1909
	464.312500	1910
464.315625		1911
464.321875		1912
	464.325000	1913
464.328125		1914
464.334375		1915
	464.337500	1916
464.340625		1917
464.346875		1918
	464.350000	1919
464.353125		1920
464.359375		1921
	464.362500	1922
464.365625		1923
464.371875		1924
	464.375000	1925
464.378125		1926
464.384375		1927
	464.387500	1928
464.390625		1929
464.396875		1930
	464.400000	1931
464.403125		1932
464.409375		1933
	464.412500	1934
464.415625		1935
464.421875		1936
	464.425000	1937
464.428125		1938
464.434375		1939
	464.437500	1940
464.440625		1941

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
464.446875		1942
	464.450000	1943
464.453125		1944
464.459375		1945
	464.462500	1946
464.465625		1947
464.471875		1948
	464.475000	1949
464.478125		1950
464.484375		1951
	464.487500	1952
464.490625		1953
464.496875		1960
	464.500000	1961
464.503125		1962
464.509375		1963
	464.512500	1964
464.515625		1965
464.521875		1972
	464.525000	1973
464.528125		1974
464.534375		1975
	464.537500	1976
464.540625		1977
464.546875		1984
	464.550000	1985
464.553125		1986
464.559375		1987
	464.562500	1988
464.565625		1989
464.571875		1990
	464.575000	1991
464.578125		1992
464.584375		1993
	464.587500	1994
464.590625		1995
464.596875		1996
	464.600000	1997
464.603125		1998
464.609375		1999
	464.612500	2000
464.615625		2001
464.621875		2002
	464.625000	2003
464.628125		2004
464.634375		2005
	464.637500	2006
464.640625		2007
464.646875		2008
	464.650000	2009
464.653125		2010
464.659375		2011
	464.662500	2012
464.665625		2013
464.671875		2014
	464.675000	2015
464.678125		2016

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
464.684375		2017
	464.687500	2018
464.690625		2019
464.696875		2020
	464.700000	2021
464.703125		2022
464.709375		2023
	464.712500	2024
464.715625		2025
464.721875		2026
	464.725000	2027
464.728125		2028
464.734375		2029
	464.737500	2030
464.740625		2031
464.746875		2032
	464.750000	2033
464.753125		2034
464.759375		2035
	464.762500	2036
464.765625		2037
464.771875		2038
	464.775000	2039
464.778125		2040
464.784375		2041
	464.787500	2042
464.790625		2043
464.796875		2044
	464.800000	2045
464.803125		2046
464.809375		2047
	464.812500	2048
464.815625		2049
464.821875		2050
	464.825000	2051
464.828125		2052
464.834375		2053
	464.837500	2054
464.840625		2055
464.846875		2056
	464.850000	2057
464.853125		2058
464.859375		2059
	464.862500	2060
464.865625		2061
464.871875		2062
	464.875000	2063
464.878125		2064
464.884375		2065
	464.887500	2066
464.890625		2067
464.896875		2068
	464.900000	2069
464.903125		2070
464.909375		2071
	464.912500	2072
464.915625		2073

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
464.921875		2074
	464.925000	2075
464.928125		2076
464.934375		2077
	464.937500	2078
464.940625		2079
464.946875		2080
	464.950000	2081
464.953125		2082
464.959375		2083
	464.962500	2084
464.965625		2085
464.971875		2086
	464.975000	2087
464.978125		2088
464.984375		2089
	464.987500	2090
464.990625		2091
464.996875		2098
	465.000000	2099
465.003125		2100
465.009375		2101
	465.012500	2102
465.015625		2103
465.646875		
	465.650000	2111
465.653125		2112
465.659375		2113
	465.662500	2114
465.665625		2115
465.671875		2116
	465.675000	2117
465.678125		2118
465.684375		2119
	465.687500	2120
465.690625		2121
465.696875		2122
	465.700000	2123
465.703125		2124
465.709375		2125
	465.712500	2126
465.715625		2127
465.721875		2128
	465.725000	2129
465.728125		2130
465.734375		2131
	465.737500	2132
465.740625		2133
465.746875		2134
	465.750000	2135
465.753125		2136
465.759375		2137
	465.762500	2138
465.765625		2139
465.771875		2140
	465.775000	2141
465.778125		2142

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
465.784375		2143
	465.787500	2144
465.790625		2145
465.796875		2146
	465.800000	2147
465.803125		2148
465.809375		2149
	465.812500	2150
465.815625		2151
465.821875		2152
	465.825000	2153
465.828125		2154
465.834375		2155
	465.837500	2156
465.840625		2157
465.846875		2158
	465.850000	2159
465.853125		2160
465.859375		2161
	465.862500	2162
465.865625		2163
465.871875		2164
	465.875000	2165
465.878125		2166
465.884375		2167
	465.887500	2168
465.890625		2169
465.896875		2170
	465.900000	2171
465.903125		2172
465.909375		2173
	465.912500	2174
465.915625		2175
465.921875		2176
	465.925000	2177
465.928125		2178
465.934375		2179
	465.937500	2180
465.940625		2181
465.946875		2182
	465.950000	2183
465.953125		2184
465.959375		2185
	465.962500	2186
465.965625		2187
465.971875		2188
	465.975000	2189
465.978125		2190
465.984375		2191
	465.987500	2192
465.990625		2193
465.996875		2194
	466.000000	2195
466.003125		2196
466.009375		2197
	466.012500	2198
466.015625		2199

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
466.021875		2200
	466.025000	2201
466.028125		2202
466.034375		2203
	466.037500	2204
466.040625		2205
466.046875		2206
	466.050000	2207
466.053125		2208
466.059375		2209
	466.062500	2210
466.065625		2211
466.071875		2212
	466.075000	2213
466.078125		2214
466.084375		2215
	466.087500	2216
466.090625		2217
466.096875		2218
	466.100000	2219
466.103125		2220
466.109375		2221
	466.112500	2222
466.115625		2223
466.121875		2224
	466.125000	2225
466.128125		2226
466.134375		2227
	466.137500	2228
466.140625		2229
466.146875		2230
	466.150000	2231
466.153125		2232
466.159375		2233
	466.162500	2234
466.165625		2235
466.171875		2236
	466.175000	2237
466.178125		2238
466.184375		2239
	466.187500	2240
466.190625		2241
466.196875		2242
	466.200000	2243
466.203125		2244
466.209375		2245
	466.212500	2246
466.215625		2247
466.221875		2248
	466.225000	2249
466.228125		2250
466.234375		2251
	466.237500	2252
466.240625		2253
466.246875		2254
	466.250000	2255
466.253125		2256

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
466.259375		2257
	466.262500	2258
466.265625		2259
466.271875		2260
	466.275000	2261
466.278125		2262
466.284375		2263
	466.287500	2264
466.290625		2265
466.296875		2266
	466.300000	2267
466.303125		2268
466.309375		2269
	466.312500	2270
466.315625		2271
466.321875		2272
	466.325000	2273
466.328125		2274
466.334375		2275
	466.337500	2276
466.340625		2277
466.346875		2278
	466.350000	2279
466.353125		2280
466.359375		2281
	466.362500	2282
466.365625		2283
466.371875		2284
	466.375000	2285
466.378125		2286
466.384375		2287
	466.387500	2288
466.390625		2289
466.396875		2290
	466.400000	2291
466.403125		2292
466.409375		2293
	466.412500	2294
466.415625		2295
466.421875		2296
	466.425000	2297
466.428125		2298
466.434375		2299
	466.437500	2300
466.440625		2301
466.446875		2302
	466.450000	2303
466.453125		2304
466.459375		2305
	466.462500	2306
466.465625		2307
466.471875		2308
	466.475000	2309
466.478125		2310
466.484375		2311
	466.487500	2312
466.490625		2313

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
466.496875		2314
	466.500000	2315
466.503125		2316
466.509375		2317
	466.512500	2318
466.515625		2319
466.521875		2320
	466.525000	2321
466.528125		2322
466.534375		2323
	466.537500	2324
466.540625		2325
466.546875		2326
	466.550000	2327
466.553125		2328
466.559375		2329
	466.562500	2330
466.565625		2331
466.571875		2332
	466.575000	2333
466.578125		2334
466.584375		2335
	466.587500	2336
466.590625		2337
466.596875		2338
	466.600000	2339
466.603125		2340
466.609375		2341
	466.612500	2342
466.615625		2343
466.621875		2344
	466.625000	2345
466.628125		2346
466.634375		2347
	466.637500	2348
466.640625		2349
466.646875		2350
	466.650000	2351
466.653125		2352
466.659375		2353
	466.662500	2354
466.665625		2355
466.671875		2356
	466.675000	2357
466.678125		2358
466.684375		2359
	466.687500	2360
466.690625		2361
466.696875		2362
	466.700000	2363
466.703125		2364
466.709375		2365
	466.712500	2366
466.715625		2367
466.721875		2368
	466.725000	2369
466.728125		2370

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
466.734375		2371
	466.737500	2372
466.740625		2373
466.746875		2374
	466.750000	2375
466.753125		2376
466.759375		2377
	466.762500	2378
466.765625		2379
466.771875		2380
	466.775000	2381
466.778125		2382
466.784375		2383
	466.787500	2384
466.790625		2385
466.796875		2386
	466.800000	2387
466.803125		2388
466.809375		2389
	466.812500	2390
466.815625		2391
466.821875		2392
	466.825000	2393
466.828125		2394
466.834375		2395
	466.837500	2396
466.840625		2397
466.846875		2398
	466.850000	2399
466.853125		2400
466.859375		2401
	466.862500	2402
466.865625		2403
466.871875		2404
	466.875000	2405
466.878125		2406
466.884375		2407
	466.887500	2408
466.890625		2409
466.896875		2410
	466.900000	2411
466.903125		2412
466.909375		2413
	466.912500	2414
466.915625		2415
466.921875		2416
	466.925000	2417
466.928125		2418
466.934375		2419
	466.937500	2420
466.940625		2421
466.946875		2422
	466.950000	2423
466.953125		2424
466.959375		2425
	466.962500	2426
466.965625		2427

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
466.971875		2428
	466.975000	2429
466.978125		2430
466.984375		2431
	466.987500	2432
466.990625		2433
466.996875		2434
	467.000000	2435
467.003125		2436
467.009375		2437
	467.012500	2438
467.015625		2439
467.021875		2440
	467.025000	2441
467.028125		2442
467.034375		2443
	467.037500	2444
467.040625		2445
467.046875		2446
	467.050000	2447
467.053125		2448
467.059375		2449
	467.062500	2450
467.065625		2451
467.071875		2452
	467.075000	2453
467.078125		2454
467.084375		2455
	467.087500	2456
467.090625		2457
467.096875		2458
	467.100000	2459
467.103125		2460
467.109375		2461
	467.112500	2462
467.115625		2463
467.121875		2464
	467.125000	2465
467.128125		2466
467.134375		2467
	467.137500	2468
467.140625		2469
467.146875		2470
	467.150000	2471
467.153125		2472
467.159375		2473
	467.162500	2474
467.165625		2475
467.171875		2476
	467.175000	2477
467.178125		2478
467.184375		2479
	467.187500	2480
467.190625		2481
467.196875		2482
	467.200000	2483
467.203125		2484

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
467.209375		2485
	467.212500	2486
467.215625		2487
467.221875		2488
	467.225000	2489
467.228125		2490
467.234375		2491
	467.237500	2492
467.240625		2493
467.246875		2494
	467.250000	2495
467.253125		2496
467.259375		2497
	467.262500	2498
467.265625		2499
467.271875		2500
	467.275000	2501
467.278125		2502
467.284375		2503
	467.287500	2504
467.290625		2505
467.296875		2506
	467.300000	2507
467.303125		2508
467.309375		2509
	467.312500	2510
467.315625		2511
467.321875		2512
	467.325000	2513
467.328125		2514
467.334375		2515
	467.337500	2516
467.340625		2517
467.346875		2518
	467.350000	2519
467.353125		2520
467.359375		2521
	467.362500	2522
467.365625		2523
467.371875		2524
	467.375000	2525
467.378125		2526
467.384375		2527
	467.387500	2528
467.390625		2529
467.396875		2530
	467.400000	2531
467.403125		2532
467.409375		2533
	467.412500	2534
467.415625		2535
467.421875		2536
	467.425000	2537
467.428125		2538
467.434375		2539
	467.437500	2540
467.440625		2541

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
467.446875		2542
	467.450000	2543
467.453125		2544
467.459375		2545
	467.462500	2546
467.465625		2547
467.471875		2548
	467.475000	2549
467.478125		2550
467.484375		2551
	467.487500	2552
467.490625		2553
467.496875		2554
	467.500000	2555
467.503125		2556
467.509375		2557
	467.512500	2558
467.515625		2559
467.521875		2560
	467.525000	2561
467.528125		2562
467.534375		2563
	467.537500	2564
467.540625		2565
467.546875		2566
	467.550000	2567
467.553125		2568
467.559375		2569
	467.562500	2570
467.565625		2571
467.571875		2572
	467.575000	2573
467.578125		2574
467.584375		2575
	467.587500	2576
467.590625		2577
467.596875		2578
	467.600000	2579
467.603125		2580
467.609375		2581
	467.612500	2582
467.615625		2583
467.621875		2584
	467.625000	2585
467.628125		2586
467.634375		2587
	467.637500	2588
467.640625		2589
467.646875		2590
	467.650000	2591
467.653125		2592
467.659375		2593
	467.662500	2594
467.665625		2595
467.671875		2596
	467.675000	2597
467.678125		2598

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
467.684375		2599
	467.687500	2600
467.690625		2601
467.696875		2602
	467.700000	2603
467.703125		2604
467.709375		2605
	467.712500	2606
467.715625		2607
467.721875		2608
	467.725000	2609
467.728125		2610
467.734375		2611
	467.737500	2612
467.740625		2613
467.746875		2614
	467.750000	2615
467.753125		2616
467.759375		2617
	467.762500	2618
467.765625		2619
467.771875		2620
	467.775000	2621
467.778125		2622
467.784375		2623
	467.787500	2624
467.790625		2625
467.796875		2626
	467.800000	2627
467.803125		2628
467.809375		2629
	467.812500	2630
467.815625		2631
467.821875		2632
	467.825000	2633
467.828125		2634
467.834375		2635
	467.837500	2636
467.840625		2637
467.846875		2638
	467.850000	2639
467.853125		2640
467.859375		2641
	467.862500	2642
467.865625		2643
467.871875		2644
	467.875000	2645
467.878125		2646
467.884375		2647
	467.887500	2648
467.890625		2649
467.896875		2650
	467.900000	2651
467.903125		2652
467.909375		2653
	467.912500	2654
467.915625		2655

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
467.921875		2656
	467.925000	2657
467.928125		2658
467.934375		2659
	467.937500	2660
467.940625		2661
467.946875		2662
	467.950000	2663
467.953125		2664
467.959375		2665
	467.962500	2666
467.965625		2667
467.971875		2668
	467.975000	2669
467.978125		2670
467.984375		2671
	467.987500	2672
467.990625		2673
467.996875		2674
	468.000000	2675
468.003125		2676
468.009375		2677
	468.012500	2678
468.015625		2679
468.021875		2680
	468.025000	2681
468.028125		2682
468.034375		2683
	468.037500	2684
468.040625		2685
468.046875		2686
	468.050000	2687
468.053125		2688
468.059375		2689
	468.062500	2690
468.065625		2691
468.071875		2692
	468.075000	2693
468.078125		2694
468.084375		2695
	468.087500	2696
468.090625		2697
468.096875		2698
	468.100000	2699
468.103125		2700
468.109375		2701
	468.112500	2702
468.115625		2703
468.121875		2704
	468.125000	2705
468.128125		2706
468.134375		2707
	468.137500	2708
468.140625		2709
468.146875		2710
	468.150000	2711
468.153125		2712

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
468.159375		2713
	468.162500	2714
468.165625		2715
468.171875		2716
	468.175000	2717
468.178125		2718
468.184375		2719
	468.187500	2720
468.190625		2721
468.196875		2722
	468.200000	2723
468.203125		2724
468.209375		2725
	468.212500	2726
468.215625		2727
468.221875		2728
	468.225000	2729
468.228125		2730
468.234375		2731
	468.237500	2732
468.240625		2733
468.246875		2734
	468.250000	2735
468.253125		2736
468.259375		2737
	468.262500	2738
468.265625		2739
468.271875		2740
	468.275000	2741
468.278125		2742
468.284375		2743
	468.287500	2744
468.290625		2745
468.296875		2746
	468.300000	2747
468.303125		2748
468.309375		2749
	468.312500	2750
468.315625		2751
468.321875		2752
	468.325000	2753
468.328125		2754
468.334375		2755
	468.337500	2756
468.340625		2757
468.346875		2758
	468.350000	2759
468.353125		2760
468.359375		2761
	468.362500	2762
468.365625		2763
468.371875		2764
	468.375000	2765
468.378125		2766
468.384375		2767
	468.387500	2768
468.390625		2769

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
468.396875		2770
	468.400000	2771
468.403125		2772
468.409375		2773
	468.412500	2774
468.415625		2775
468.421875		2776
	468.425000	2777
468.428125		2778
468.434375		2779
	468.437500	2780
468.440625		2781
468.446875		2782
	468.450000	2783
468.453125		2784
468.459375		2785
	468.462500	2786
468.465625		2787
468.471875		2788
	468.475000	2789
468.478125		2790
468.484375		2791
	468.487500	2792
468.490625		2793
468.496875		2794
	468.500000	2795
468.503125		2796
468.509375		2797
	468.512500	2798
468.515625		2799
468.521875		2800
	468.525000	2801
468.528125		2802
468.534375		2803
	468.537500	2804
468.540625		2805
468.546875		2806
	468.550000	2807
468.553125		2808
468.559375		2809
	468.562500	2810
468.565625		2811
468.571875		2812
	468.575000	2813
468.578125		2814
468.584375		2815
	468.587500	2816
468.590625		2817
468.596875		2818
	468.600000	2819
468.603125		2820
468.609375		2821
	468.612500	2822
468.615625		2823
468.621875		2824
	468.625000	2825
468.628125		2826

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
468.634375		2827
	468.637500	2828
468.640625		2829
468.646875		2830
	468.650000	2831
468.653125		2832
468.659375		2833
	468.662500	2834
468.665625		2835
468.671875		2836
	468.675000	2837
468.678125		2838
468.684375		2839
	468.687500	2840
468.690625		2841
468.696875		2842
	468.700000	2843
468.703125		2844
468.709375		2845
	468.712500	2846
468.715625		2847
468.721875		2848
	468.725000	2849
468.728125		2850
468.734375		2851
	468.737500	2852
468.740625		2853
468.746875		2854
	468.750000	2855
468.753125		2856
468.759375		2857
	468.762500	2858
468.765625		2859
468.771875		2860
	468.775000	2861
468.778125		2862
468.784375		2863
	468.787500	2864
468.790625		2865
468.796875		2866
	468.800000	2867
468.803125		2868
468.809375		2869
	468.812500	2870
468.815625		2871
468.821875		2872
	468.825000	2873
468.828125		2874
468.834375		2875
	468.837500	2876
468.840625		2877
468.846875		2878
	468.850000	2879
468.853125		2880
468.859375		2881
	468.862500	2882
468.865625		2883

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
468.871875		2884
	468.875000	2885
468.878125		2886
468.884375		2887
	468.887500	2888
468.890625		2889
468.896875		2890
	468.900000	2891
468.903125		2892
468.909375		2893
	468.912500	2894
468.915625		2895
468.921875		2896
	468.925000	2897
468.928125		2898
468.934375		2899
	468.937500	2900
468.940625		2901
468.946875		2902
	468.950000	2903
468.953125		2904
468.959375		2905
	468.962500	2906
468.965625		2907
468.971875		2908
	468.975000	2909
468.978125		2910
468.984375		2911
	468.987500	2912
468.990625		2913
468.996875		2914
	469.000000	2915
469.003125		2916
469.009375		2917
	469.012500	2918
469.015625		2919
469.021875		2920
	469.025000	2921
469.028125		2922
469.034375		2923
	469.037500	2924
469.040625		2925
469.046875		2926
	469.050000	2927
469.053125		2928
469.059375		2929
	469.062500	2930
469.065625		2931
469.071875		2932
	469.075000	2933
469.078125		2934
469.084375		2935
	469.087500	2936
469.090625		2937
469.096875		2938
	469.100000	2939
469.103125		2940

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
469.109375		2941
	469.112500	2942
469.115625		2943
469.121875		2944
	469.125000	2945
469.128125		2946
469.134375		2947
	469.137500	2948
469.140625		2949
469.146875		2950
	469.150000	2951
469.153125		2952
469.159375		2953
	469.162500	2954
469.165625		2955
469.171875		2956
	469.175000	2957
469.178125		2958
469.184375		2959
	469.187500	2960
469.190625		2961
469.196875		2962
	469.200000	2963
469.203125		2964
469.209375		2965
	469.212500	2966
469.215625		2967
469.221875		2968
	469.225000	2969
469.228125		2970
469.234375		2971
	469.237500	2972
469.240625		2973
469.246875		2974
	469.250000	2975
469.253125		2976
469.259375		2977
	469.262500	2978
469.265625		2979
469.271875		2980
	469.275000	2981
469.278125		2982
469.284375		2983
	469.287500	2984
469.290625		2985
469.296875		2986
	469.300000	2987
469.303125		2988
469.309375		2989
	469.312500	2990
469.315625		2991
469.321875		2992
	469.325000	2993
469.328125		2994
469.334375		2995
	469.337500	2996
469.340625		2997

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
469.346875		2998
	469.350000	2999
469.353125		3000
469.359375		3001
	469.362500	3002
469.365625		3003
469.371875		3004
	469.375000	3005
469.378125		3006
469.384375		3007
	469.387500	3008
469.390625		3009
469.396875		3010
	469.400000	3011
469.403125		3012
469.409375		3013
	469.412500	3014
469.415625		3015
469.421875		3016
	469.425000	3017
469.428125		3018
469.434375		3019
	469.437500	3020
469.440625		3021
469.446875		3022
	469.450000	3023
469.453125		3024
469.459375		3025
	469.462500	3026
469.465625		3027
469.471875		3028
	469.475000	3029
469.478125		3030
469.484375		3031
	469.487500	3032
469.490625		3033
469.496875		3034
	469.500000	3035
469.503125		3036
469.509375		3037
	469.512500	3038
469.515625		3039
469.521875		3040
	469.525000	3041
469.528125		3042
469.534375		3043
	469.537500	3044
469.540625		3045
469.546875		3046
	469.550000	3047
469.553125		3048
469.559375		3049
	469.562500	3050
469.565625		3051
469.571875		3052
	469.575000	3053
469.578125		3054

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
469.584375		3055
	469.587500	3056
469.590625		3057
469.596875		3058
	469.600000	3059
469.603125		3060
469.609375		3061
	469.612500	3062
469.615625		3063
469.621875		3064
	469.625000	3065
469.628125		3066
469.634375		3067
	469.637500	3068
469.640625		3069
469.646875		3070
	469.650000	3071
469.653125		3072
469.659375		3073
	469.662500	3074
469.665625		3075
469.671875		3076
	469.675000	3077
469.678125		3078
469.684375		3079
	469.687500	3080
469.690625		3081
469.696875		3082
	469.700000	3083
469.703125		3084
469.709375		3085
	469.712500	3086
469.715625		3087
469.721875		3088
	469.725000	3089
469.728125		3090
469.734375		3091
	469.737500	3092
469.740625		3093
469.746875		3094
	469.750000	3095
469.753125		3096
469.759375		3097
	469.762500	3098
469.765625		3099
469.771875		3100
	469.775000	3101
469.778125		3102
469.784375		3103
	469.787500	3104
469.790625		3105
469.796875		3106
	469.800000	3107
469.803125		3108
469.809375		3109
	469.812500	3110
469.815625		3111

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}

FREQUENCY		CHANNEL NUMBER
6.25 kHz BW.	12.5 kHz BW	
469.821875		3112
	469.825000	3113
469.828125		3114
469.834375		3115
	469.837500	3116
469.840625		3117
469.846875		3118
	469.850000	3119
469.853125		3120
469.859375		3121
	469.862500	3122
469.865625		3123
469.871875		3124
	469.875000	3125
469.878125		3126
469.884375		3127
	469.887500	3128
469.890625		3129
469.896875		3130
	469.900000	3131
469.903125		3132
469.909375		3133
	469.912500	3134
469.915625		3135
469.921875		3136
	469.925000	3137
469.928125		3138
469.934375		3139
	469.937500	3140
469.940625		3141
469.946875		3142
	469.950000	3143
469.953125		3144
469.959375		3145
	469.962500	3146
469.965625		3147
469.971875		3148
	469.975000	3149
469.978125		3150

Proposed §90.35(b)(5) UHF channel listing (continued) {see petition page 19}